

January 5, 2004

Mr. Kevin Turner
On-Scene Coordinator
U.S. Environmental Protection Agency Region 5
77 West Jackson Boulevard
Chicago, IL 60604

Subject:

Removal Action Report

Dead Creek Sediment Removal Site Sauget, St. Clair County, Illinois EPA Contract No. 68-W-00-129

TDD No. S05-0104-010

Dear Mr. Turner:

The Tetra Tech EM Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) is submitting this final Removal Action report generated for the Dead Creek site located in Sauget, Illinois. This report summarizes field activities conducted at the site during the response activities.

If you have any questions about the enclosed report, please call me at (314) 892-6322 or Tom Kouris at (312) 856-8700.

Sincerely,

Ronald A. Carroll

START Project Manager

Enclosure

cc:

Lorraine Kosik, U.S. EPA START Project Officer Tom Kouris, Tetra Tech START Program Manager

START File

REMOVAL ACTION REPORT

DEAD CREEK SEDIMENT REMOVAL SAUGET, ST. CLAIR COUNTY, ILLINOIS

Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY Region 5 Chicago, IL 60604

Contract No.: 68-W-00-129
TDD No.: S05-0104-010
Date Prepared: January 5, 2004
EPA Work Task Monitor: Mr. Kevin Turner
Telephone No.: (618) 997-0115
Prepared by: Tetra Tech EM Inc.
START Project Manager: Ronald A. Carroll
Telephone No.: (314) 892-6322

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REMOVAL ACTION REPORT DEAD CREEK SEDIMENT REMOVAL SAUGET, ST. CLAIR COUNTY, ILLINOIS

1.0 INTRODUCTION

This report has been prepared under the provisions of Technical Direction Document (TDD) No. S05-0104-010, which the U.S. Environmental Protection Agency Region 5 (U.S. EPA) assigned to the Tetra Tech EM Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) under Contract No. 68-W-00-129. The overall scope of this TDD, monitored by On-Scene Coordinator (OSC) Mr. Kevin Turner, was to provide oversight during the removal activities. Specific elements of this TDD included documenting on-site conditions and activities with logbook notes (Appendix A) and photographs (Appendix B), and preparing a final report.

2.0 SITE BACKGROUND

The Dead Creek site is located within Sauget and Cahokia, Illinois, roughly between Illinois Highway 3 and Falling Springs Road. The creek starts at Queeny Avenue, flows past Illinois Highway 157, and empties into the Old Prairie du Pont Creek, which is a tributary to the Mississippi River. The site is bordered to the north by the Solutia industrial site as well as several other industrial sites; to the east and west by residential or commercial property; and to the south by a park, wetlands and primarily undeveloped property.

In 1928, an easement agreement was executed between local property owners and representatives for other interests to improve drainage in the area and make Dead Creek suitable for the disposal of various waters. As a result, Dead Creek received discharges from local businesses and the Village of Sauget for many years. Prior to the installation of public sewers in the Village of Sauget in the early 1930s, industrial process wastewater from Sauget and East St. Louis flowed directly into Dead Creek. Six source areas believed to contain greater than 400,000 cubic yards of waste from various sources were located within Dead Creek's headwaters. These source areas were described as two closed municipal/industrial landfills, a closed disposal area that was covered by the U.S. EPA in 1995, a backfilled wastewater impoundment, a former borrow pit, and a backfilled borrow pit.

The Illinois Environmental Protection Agency (IEPA) divided Dead Creek into six segments (A-F) during a 1988 investigation. Segment A is not part of the removal. Segment B extends south from Queeny Avenue to Judith Lane. The culvert at Judith Lane was blocked in 1965 to prevent water from flowing downstream. Site M, which was not part of the IEPA division of Dead Creek in 1988, is located along the eastern side of Dead Creek at the western end of Walnut Street. In the 1940s, Site M was constructed as a sand borrow pit and contained approximately 3,600 cubic yards of contaminated sediment. Creek Segment C extends south from Judith Lane to Cahokia Street. Segment D runs south from Cahokia Street to Jerome Lane. Creek Segment E runs south from Jerome Lane to Illinois Highway 157. Segment F extends from Highway 157 to Old Prairie du Pont Creek. Segment F is the widest portion of Dead Creek. Samples of water and sediment from Creek Segments B-F and Site M collected in the 1980s, 1990s and 2000 indicated the presence of a variety of organic and inorganic constituents.

It was determined that the contaminated sediment from the creek created a hazardous situation for the residents living near the site. A variety of organic and inorganic constituents were found in the water and sediment tested from Dead Creek and Site M. The list of constituents consisted of 39 semivolatile organic compounds, 10 volatile organic compounds (VOC), 20 metals, and polychlorinated biphenyls (PCB). The number of, as well as the concentrations of the constituents, were generally higher in the northern portions of Dead Creek. Barium, copper, lead, nickel, and zinc were found in all segments of the creek at levels greater than 100 parts per million (ppm). PCBs were also found in all segments at levels greater than 1 ppm. Sediment toxicity was observed in all but the most southern segment of Dead Creek.

Work began on the site in November 2000 with preparations for installing the creek bypass system, which consisted of a 12-inch pipe running the length of Dead Creek. To install the pipe, it was necessary to excavate through streets and place culverts under them. The sections of pipe were put together and pumps and pump stations were installed. Sediment traps were installed in all segments of the creek. This was followed by cleaning the culverts where the creek was covered, then beginning the creek bypass system. After the creek bypass system was operating, brush and debris were removed from the creek, starting with Segment B. Safety fences were installed around the creek from Segment B to near Parks College in Segment E. The debris removed from the creek was then stockpiled. A low-flow channel was dug in Segments D-F to collect the water in the middle of the creek and allow the sediment near the sides of the creek to dry. Near this time, construction of an on-site U.S. EPA-permitted Toxic Substances

Control Act (TSCA) land disposal cell began. Impacted sediment from the channel and banks of Dead Creek was excavated and transported for disposal into the cell. Figure 1 illustrates the approximate location of the site. Figure 2 shows that site layout and the TSCA cell area.

3.0 REMOVAL ACTIVITIES

At the request of U.S. EPA, START mobilized to Sauget on April 11, 2001 to begin oversight activities. START employee Arthur Currier met with U.S. EPA OSC Kevin Turner and representatives from the other contractors that would be performing work at the site. These contractors included Maverick Construction Management Services, Inc.; Environmental Restoration LLC; LMS Construction Inc.; URS Corporation; and Golder & Associates.

Material was being removed from Site M by late June 2001 and placed in a designated containment area within Segment B. A carbon treatment system was used to filter the water being pumped from Site M to the downstream Dead Creek channel. By July 16, 2001, all the material had been removed from Site M, which was subsequently prepared for grading.

The walls of the TSCA cell were completed in mid-July 2001 and construction of the liner began by placing rock and gravel in the base. Installation of the secondary liner began on July 26, 2001 and was completed on August 15, 2001. The access ramps to the cell were completed on August 15, 2001. The primary liner was completed on September 6, 2001. Prior to sediment being placed in the cell, a layer of sand was placed in the bottom of the TSCA cell.

During the construction of the TSCA cell liner, Site M was graded and seeded, and the culverts passing under Highway 157 and Highway 3 were cleaned. Sediment from Segments D and E were stockpiled in the Segment B designated containment area. Installation of ten groundwater monitoring wells began on August 20, 2001. Well development continued until September 5, 2001, with the first groundwater monitoring well samples collected on September 19, 2001.

Figure 1

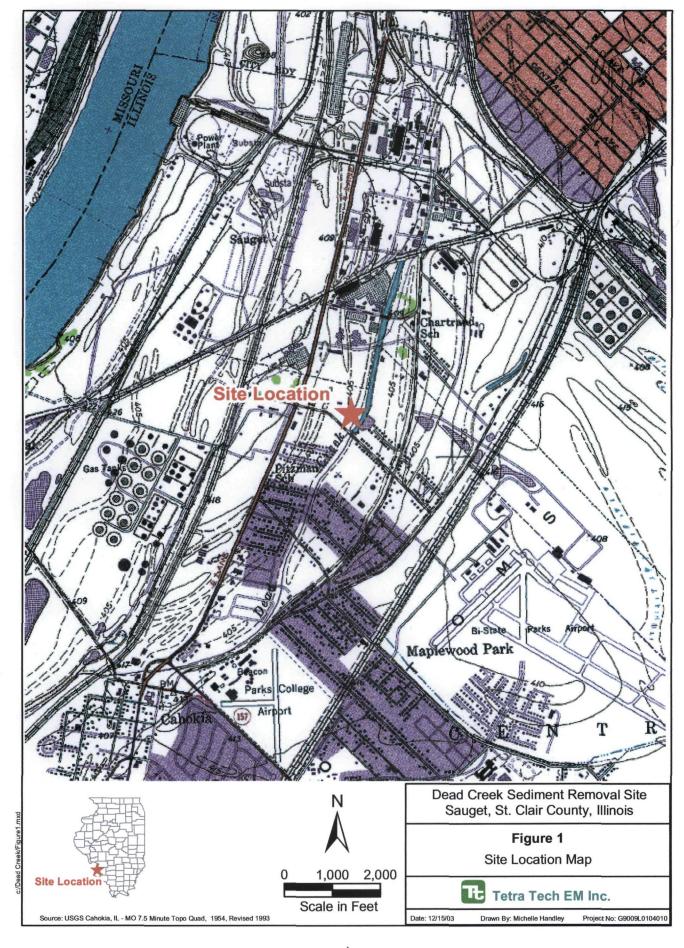
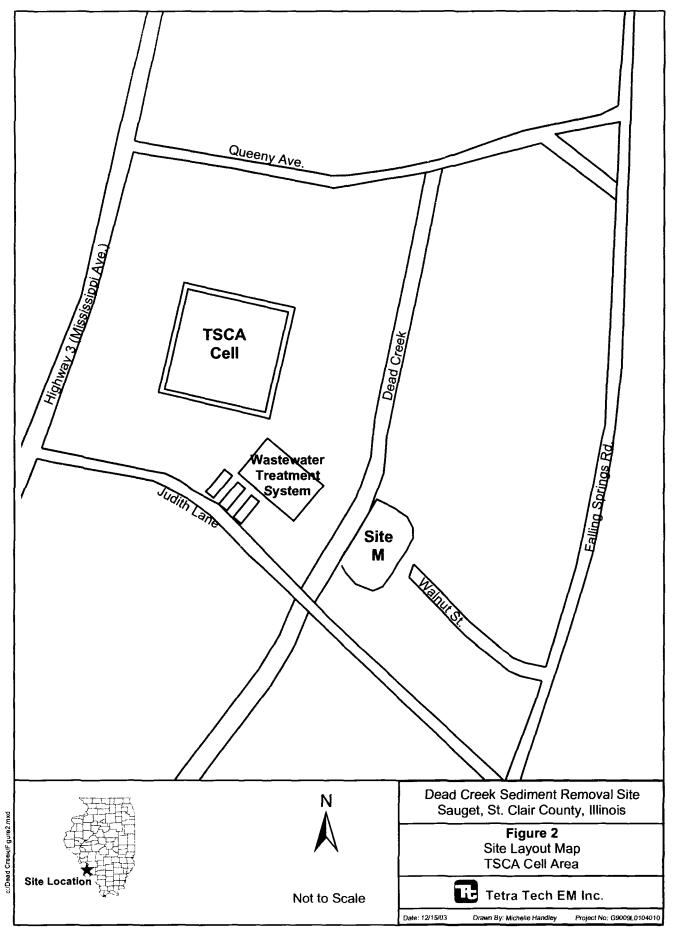


Figure 2



A wastewater treatment system for the TSCA cell was also installed. It consisted of a collection sump in the northwest corner of the cell and associated piping that ran to a series of settling tanks and carbon filters located near the site trailers.

Screening of the sediment stored in the Segment B containment area to remove objects that might damage the liner began on September 6, 2001. On September 19, 2001, the TSCA cell was completed and the first load of screened sediment from Seqment B was placed in the cell on September 20, 2001. Paint filter tests were completed on stockpiles prior to the sediment being placed in the TSCA cell. The removal from Segment B was completed on November 14, 2001. Collection of confirmatory samples of creek sediment began on November 20, 2001.

The sediment removal from Segment D was completed on October 17, 2001. On October 27, 2001, what was believed to be an overflow pipe was found in Segment B near Queeny Avenue. On October 29, 2001 START collected a sample of the discharge from the pipe and tested the headspace for VOCs with a photoionization detector. No VOCs were detected and in early November 2001, an anti-seep collar was placed on the pipe, which was subsequently plugged with concrete on November 8, 2001.

Removal of sediment from Segment C began on November 8, 2001, and was completed on December 4, 2001.

The collection of confirmatory samples of creek sediment from Segments B-E was completed by Solutia's agent on January 25, 2002.

The removal from Segment F began on December 5, 2001, and was completed on February 6, 2002. Subsequent confirmatory samples were collected.

By late February 2002, all sediment had been removed from the creek. A total of approximately 50,384 cubic yards of sediment were placed in the TSCA disposal cell. Placement of the temporary cover on the TSCA cell began on February 28, 2002.

On March 4, 2002, the contaminated sediment removal phase of the project was completed and START was no longer required to monitor site sediment removal activities. The remaining activities to be completed at the site include:

- Demobilization and decontamination of equipment;
- Complete the installation of the temporary cover on the TSCA cell;
- Removal of the de-watering piping system and other equipment from the creek segments;
- Demobilization of the cell wastewater treatment system and establishment of a carbon filtration unit.

4.0 WASTE DISPOSAL

All impacted sediment materials removed from Dead Creek were placed in the on-site TSCA land disposal cell. A total of 50,384 cubic yards of impacted sediment were placed in the TSCA cell. Brush and other debris removed from the creek was placed in the TSCA cell away from the liner. Solid investigation-derived waste was either placed in the cell or disposed of as hazardous materials. Decontamination water was treated by the TSCA cell wastewater treatment system. Solutia's agents were not required to monitor the amount of water that passed through the TSCA cell wastewater treatment system. Therefore, that volume is unknown.

5.0 ANALYTICAL SUMMARY

All samples for analysis, including confirmatory creek sediment samples, groundwater samples, and sediment paint filter samples were collected by agents hired by Solutia. All analytical results were provided to Solutia under their agreement with the U.S. EPA. START did not have access to the results. Moreover, START was not tasked to review post-remedial confirmation sample results collected under the direction of Solutia.

6.0 CONCLUSIONS

The Dead Creek site is located within Sauget and Cahokia, Illinois, roughly between Illinois Highway 3 and Falling Springs Road. The northern boundary starts at Queeny Avenue, flows past Illinois Highway

157, and empties into the Old Prairie du Pont Creek, which is a tributary to the Mississippi River. The site is bordered to the north by the Solutia industrial site as well as several other industrial sites; to the east and west by residential or commercial property; and to the south by a park, wetlands and undeveloped property.

Prior to the installation of public sewers in the Village of Sauget in the early 1930s, industrial process wastewater from Sauget and East St. Louis flowed directly into Dead Creek. Six source areas believed to contain greater than 400,000 cubic yards of waste from various sources were located within Dead Creek's headwaters.

IEPA divided Dead Creek into six segments (A-F) during a 1988 investigation. Samples of water and sediment from Creek Segments B-F and Site M, located along the eastern side of Dead Creek at the western end of Walnut Street, collected in the 1980s, 1990s and 2000 indicated the presence of a variety of organic and inorganic constituents.

It was determined that the contaminated sediment from the creek created a hazardous situation for the residents living near the site. The list of constituents found in the water and sediment tested from Dead Creek and Site M consisted of 39 semivolatile organic compounds, 10 volatile organic compounds, 20 metals, and PCBs. The number of, as well as the concentrations of the constituents, were generally higher in the northern portions of Dead Creek. Barium, copper, lead, nickel, and zinc were found in all segments of the creek at levels greater than 100 ppm. PCB was also found in all segments at levels greater than 1 ppm. Sediment toxicity was observed in all but the most southern segment of Dead Creek.

Work began on the site in November 2000 with preparations for installing the creek bypass system running the length of Dead Creek. Sediment traps were installed in all segments of the creek. After the creek bypass system was operating, brush and debris were removed from the creek starting with Segment B. A low-flow channel was dug in Segments D-F to collect the water in the middle of the creek and allow the sediment near the sides of the creek to dry. Near that time, construction of the TSCA land disposal cell began. At the request of U.S. EPA, START mobilized to Sauget on April 11, 2001 to begin oversite monitoring activities.

During the construction of the TSCA land disposal cell, sediment was removed from Site M and Segments D and E, and ten groundwater monitoring wells were installed. A wastewater treatment system for the cell was installed. Construction of the TSCA cell was completed on September 19, 2001, with the first load of sediment placed in the cell the following day.

All sediment was removed from Segments B-E by the end of 2001, with removal of sediment from Segment F completed on February 6, 2002. Collection of confirmatory samples of creek sediment began in November 2001 and completed in January 2002.

By late February 2002, all sediment had been removed from the creek and a total of approximately 50,384 cubic yards of sediment were placed in the TSCA cell. Placement of the temporary cover on the TSCA cell began on February 28, 2002.

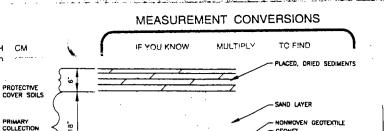
On March 4, 2002, the contaminated sediment removal phase of the project was completed and START was no longer required to be on site. The remaining activities at the site to be completed include:

- Demobilization and decontamination of equipment;
- Completion of the temporary cover on the TSCA cell;
- Removal of the dewatering piping system and other equipment from the creek segments;
- Demobilization of the cell wastewater treatment system and establishment of a carbon filtration unit.

APPENDIX A

LOGBOOK NOTES

(96 Pages)



- GEONET

PRIMARY HDPE

NONWOVEN GEOTEXTILE

GEOMEMBRANE (60 MIL) (BOTH SIDES SMOOTH) TRACKED IN PLACE SOIL PRIMARY NONWOVEN GEOTEXTILE LINER SYSTEM GEONET SECONDARY SECONDARY HOPE GEOMEMBRANE (60 MIL)
(TEXTURED SIDE FACING GCL) SECONDARY LINER SYSTEM GEOSYNTHETIC CLAY LINING TRACKED IN PLACE SOIL

COMPACTED FILL OR SUBGRADE

JT FOR CONSTRUCTION. YER THICKNESSES SHOWN COMPACTED THICKNESS.

SUBGRAGE

INCH

SCALE = N.T.S.

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16			11"	.9167	279.40	1
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ALL-WEATHER WRITING PAPER

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Suite 303 St. Mouis, Mo 63123

Phone 314- 892-6322

Project Dead Creek Sediment Removal £9009. L. 01. 04.010

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1 64 1

4 Mei
Attended kickoff meeting with
Dead Creek from Attendees included
Moverick, ER, LMS, Heritage, MRS,
Golder, USEPA and TEEMI.
Discussed the project schedule,
Health and Safety 155mes and
general process.
•
Cothey C. Currier 4"/01
Cultural Contraction of
· /

 上海海长壤的4份,广泛

0/161 8970 Arrived on site and discussed 1210 Arrived on site and toured cell construction area. Viewed cell construction with the gir monitoring records. Construction Manager, He has 1440 Departed site. some ideas to speed up the removal process while waiting Cother Curies for the cell to be completed and write approval. Wasked Segment F. 1300 Departed site. Why Curry

1995年 - 建酸盐剂**则**拿通过的

[6]]

0930 Arrived on site and toursel OTIC Arrived on sik. Touved cell cell construction area. unstruction site. 1000 Continued to review LMS QC 1000 Companied to review LMS QC files. files. 1130 Toured cell area. 1200 Departed Site. 1215 Departed site. Cather F. Curies Athen C. Curies

1/260
1810 Arrived on site.
0815 Toured cell construction
area and Site M.
0845 Continued review of LMS
OC 41/13
1130 Toured Site Mi
1200 Began POLREP #1 While
110 2003
1300 Ended working lunch.
1325 Completed draft POLREPHY.
1300 Ended Working Lunch. 1325 Completed dvaft POLREPHY. 1430 Completed review of LMS QC Vecords.
the part of the same of the sa
1440 Toured Site M.
1500 Departed site.
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The control of the second section of the control of

Q/i/. 0730 Arrived on site.
0745 Toured Cell area and site M. 0850 Complete final version of

POL REP #1

1600 Departed site.

3840 Arrived on 5/te. There was about 0.26" of precipitation occuring in the cell Toured 5its M. 1200 Deported site. What Curie

0810 Arrived on site. Trucks are bringing fill into the cell and rock for the bottom 0815 Tourid Site M and the COll. Rock is Oling dumped in the pottom of the cell and then spread out by bulldozer, Site Mis nearly complete and the removal in M Thould be dow tomorrow. 1100 Departed site. Petherst. Currie

医结束 医梅毒

0900 Arrived on site. 0920 Toured 5.42 M and cell. Site M removal 15 complete and He area is being rough graded. Rock is still being brought with the coll and should be unpleted today. 1300 Toured cell. Rock is almost all graded. 1510 Diparted site.

0530 Arrived on site. 0850 Towned Will area Rock is graded and loads of gravel

are being broughtin.

1100 Toured cell area. Gravel is being graded as it is brought 1515 Complete draft of POLREP#2. 1600 Toured Cell. It appears that about 1/2 of the gravel is 1620 Departed site. athat. Curie

7/23/1 0950 Arrived on site. 1000 Toured cell. Rain since previous week has stopped week. 1120 Departed site.

1001 1000 Arrived on site, 85°F/Cloudy 1020 Toured all. It was dry enough yesterday to complete grading 1040 Began to install geotextile liner on top of gravel. It
is sun together with about a 3" over lap. 1200 Lanch break 1300 Returned from burch. Here is geotextile covering about B of the bottom of the cell. 1330 Visited box culvert cleanant by ER where Dead (Vack passes anderneath Hwy. 157. Reviewed Confued space by and asked about gos monitoring 1515 Geotextile mat now coners > 15%. of bottom of cell. All scams appear solidly fastened 1610 The last voll of geofoxtile mat is being laid and sewn brading is continuing at Site M 1625 Departed Site Mhus C. Curries

50.疫糖剂 計

7/2521 1000 - START Pouch is on site Wather is warm mercast (80%) Lage of goolestate in all grading Date M. 1) out Mynding - 1005 -NF 2) all - sontrong soil 1005 NW. - creek closning out culverte if 157 - point mylor-togetagaptey &CL on cell. have to tare all in place in systembine 4) Char probable of motortice - 1015 6) Coro wear of lines -1019 - down 1) View marter cell - 1020 W 8) stockpilot sedes near sit M -1030 1145 same attribes since last in by Fink of out. 1150- Polich at 157 calvert deal mys. photo 10 appration at 157

1550. Parish in back on site 282°F, overcat activities - continuing to ap I good site M. - fringing in cert spreading on cell, live is about 3/4 concred without at this this (1600) - are now cleanery south side of sulvert at Higwey 157. got a little bit of raine 1630 at alvert, 157, got bulk of , material out stan elec/processie wasting left

Sother Currey

Q31/01 0150 Arrived on site. Saney, M/m and about 82"F. Huy 151 West culvert has been completed. Evading at Site M and smoothing He inner cell walls is continuing 1015 Continuor smoothing the inner walls of the dell and digging the anchor trench for the GCL Timer Photographs of anchor trench and cell interior 1205 Confined work on cell and anchor trench. 1300 Departed site. Wither C. Crusy

11/1种特赚131111

101 0805 Arrived on site. Preparations are underway to clean the box 2 Onlvert at Huy. 3. Grading is - continuing at Site M. The anchor a worth is completed on the south Side and about 15% complete on the east side. Photographed 13 south and east anchor trendes and the cell interior. 1930 Met to discuss process of coll 0933 Uncovered first poll of GCC for install afrom. Photographed foll on the loader 1002 Deployed first Voll of GCL. Thotographed deployment and deployed voll and end of voll 11 ancher treuch

a significaciji na 🖭 📗

0 8/1/01 Cont. 1015 Photographed deployment at Ground roll. 1022 Photographed GCL liners from pottori of cell and photographed coll from SW corner. 1029 Photographed deployment of thuckell. 1000 Deployed fourth 1011 1042 Photo of overlap between scord and third volls at bottom. 1051 Deployed fifth Volls 1100 Deployed 6th roll. 1135 Photo of granular material to 255ist in making the seal between the rolls. Granator material is bentonite. 1155 Broke for lanch. 250 Lunch Ended 1305 Photos of GCL Installed from South side and closeup of 1300 Site M is completed, Seeding, will occur next week. East anchor trench 15 complete, Nest anchor tranch is about 50% complete. 1345 Photo Of Sumpling Acadetion 1350 Photo of sample Collection.

1405 Photo of GCL liner facing 3E. His Voited culvert cleanout steat Hwy 3 and photographed upstream But at the box culvert looking space leg is in place and about 30 feet of debris has been report from the box culvest. 1475 Viewed removal of sedement from Segment D. Had to assest in determining where sedment luded and clay began The clay has a Slightly green tinge Photographed 1510 Back to cell. The first roll of germembrane has been placed and 15 lains smootled. Took photo taging NNW. 1620 Deployed 2nd vol of geomen brane, 1629 Photo of first geo-2 1635 Photo of Winning 1645 beginsted gite. Mies.

Q/2/01 0805 Arrived on site Sunny, calm, 83°F Visited box Culvert alcanout and toured cell area, 1922 Photo of cell interior facing). 1938 Photo of air testing of germembrane lines. Test passed. 1000 Photo of cell interior facing NE. 1110 Photo of GCL deployment. 1132 Photo of box culvert passing under Hwy. 3. Confined space log is complete. There was a spike of CO in the OSK readings but it was within limits. 1142 Photo of creek at segment D with Sediment removed. Removal has progressed about 75 feet north of Hwy. 157. 145 Photo of small excavator removing sediment at segment D 1146 Photo of large exercator taking sediment from Segment D and loading it into the articulated 1165 Stopped for Junch. All air tests have passed so far. 1230 Lunch Break over.

130 Eggs trenching for collection and

detection piping in NW course Took Photo.

46 Phone of geomen Inau spread across The bottom of the all

1720 Photo of patch in geomen brane

Timer where air testing was down. 1423 Began Welding the growenbrane

years on the Hoor of the cell.

1515 Photo of patch bling sealed. 1540 GCL 121d today 13 about 75%.

1532 Esk Calvert under Hung. 3 15 Chand to about 80 feet

605 Sediment removal from Segment D 15 about 150 teet north of

Huy. 157.

1615 Departed site.

full Curries

0135 Arrived on site, Cloudy, calm, 75°F. There was 0.86" of rain at

the cell orea last night so no

liner deployment is scheduled. Due to rainful, no work at

Segment Dis taking place and

the water will need to be

pumped from the box culvert at Huy. 197 to work there.

0800 Pumping 15 underway of the Hwy. 3

Dox Culvert

0830 Photographed interior of the cell

showing the completed GCL and HBPE germembrane. Photos asso

Show water ponded in the NW

corner of the cell The only work scheduled for the cell

today is air testing of seams

and patching. 1030 Departed site.

Without C Curies

Tis Arrived on site. Sunny calm, 75°F. Wort has begun again on clearing the box where passing under Hug. 3. The areas st the till that aren't covered by the frading of the cell is completed. sufficiently to begin laying bel. Leovered avea area to phe covered today 1025 Photo of cell interior facing NE. 1052 Photo of NW corner of cell. The standing water from last Thursdays Then Was goes by Saturday, but the area is still suturated. 150 Stopped for lunch. 230 Finished laying sel on the south 1245 Began laying HDPE geomembrane 1255 Checked Hwy 3 bex culvert Cleanout Sediment and debris have been personed for about 110fed.

8/6/01 cont. 1333 Photo of Cell from NE. 1500 Scaming of laid geomembrane 1530 Cleanant of Hwy 3 box culrent may be completed tunisht.

1610 Departed 51te. athur Curies

17/10

OPE Arrived on site Sunny, colon, 75F.

Hwy 3 Drx Culvert will be

power washed today god sediment

removal between they 157 and

Parks College in Sigment Dis

mearly complete. Cell 12 about

66% Covered with geomenbrae.

area to Covered area today

100 Photo of cell facing NE.
100 Photo of cell interior facing NE.
1420 Sediment removal between Parts
Cellege and 137 in Signest D
should be completed ferright.
1500 Began cleaning box culvert
under Old Hisy, 3. Sediment is
about 3 feet deep.

atthest Couries

0805 Arrived on Site. Sunny, colon, 80 F. Cell plan for today is to put down more GCL and geomembrane and then start placing georet in 0826 Cell is about 70% covered 1030 Photo of Ceil Faling NE 1033 Progress meeting antil 1115. Major topics included satety, schedule and the ramp to bring In initerial to cover the poixs. 1130 Toured Segments D and E with CM and IEPA. Tooks photos of completed Sigment D' samuet Removal Lear Parks College. 1145 Photo of Sediment removal at Syment E between 157 and 3. The plan is to complete this Keneval foright 1155 Photo of totally cleaned bux Culvert entrance under they. 3.

Court. 1200 Photo of Dox Culvert clarent under Old Hwy. 3 1400 Began plating georet A6 purplied been placed at the Surp in case of heavy rain 1545 Sediment removal between 3 and 151 is about 50% complete. 130 Departed site Exthey P. Currey

0820 prived on site. Cloudy, calm, 80%. Sediment was removed from the Overk between 157 and 3. Georet 15 being placed on the covered
area of the cell 1000 Photo of cell facing NE Only about a 100×100 portion of the cell floor and associated slopes ned to be covered. The East slope is covered with grower. 1120 Photo of cleaned creek Egnent from on top of the Hwy. 3 culvert Riprap has been placed affle Contrance of the culvert and 1310 Photo of Cell facing NW with 6" pump Visible on far slope. 1312 Photo of genet showing everlap and fustoners. 1330 Fencing and other protective items have been removed from the Segement E area. Grass seed will be spread in the besten down areas. No further work is planned for the old

8/9/01 Cont. Huy 3 box culvert deanout until hext week 1400 Discussettle Change to the Implementation schedule for the access Varie with Rob Watson it IEPA. He said it was agreat idea and in excellent fine squer 145 The cell 15 about 40% coverell with germanborn granet. The lives material in the anchor trench is being covered with 12" of material where the growet has been installed. 1950 Departed, Site. farther & Currey

0715 Arrived on site Cloudy, calm, 13F No work is being done on the Creek. There is a smull amount Af standing water in the sump from the 0,25 that fell yesterday afternoon and night West in the cell today will consist of placing geotextile over the already in place great and placing more 0840 Photo of cell facing NE. 0841 Photos of sump area with standing water 1300 Beaux and geotextile continue to be placed Photofucing NW. 1330 Departed site futhers Curries

0805 Arrived on site Sunny, light breeze, 73°1. The bex culvert under Old thing is is being cleaned out. The swap in the NW corner of the cell is being excavated and expland with dry material. He GUL 15 Deing placed near the sunparea The Cell is about 75% covered with geonst and the cell Hoor is a bout 60% covered with the good layer of narven grotextile. 1015 Photo of all facing NE. 1017 Photo of rolls of geotatile staged on Hi theor of the cell. 1118 Photo of GCL placed this morning. 1020 Photo of the sump area after the wet material was removed and the dry material is being graded. 1021 Photo of samp area grading fainy W 1100 The box Oulvert under Old Hay. 3 15 being levatored. There is about 12" of pater in the channel upstream of the per culvert. 145 Liver crew broke tow Lunch. Grading

8/13/01 cont. an aid smoothing of the sump area 15 continuing 1150 Photo of NW corner of cell. The Cell is about 95% covered with GEL 1250 The NW Corner of the cell is being smoothed and the final grading is being fore. Soil has been placed in He auchor trench where the geomet has bun placed. + geomental - + geotoctile 1300 Liner crew began deploying HDPE geomembrane over the Ell. 1315 Geomenbrane is being welded. 1375 Lines crew began deploying GCL in He sunp aveg. Geomembrane welding is continuing 1440 Sediment de being temoved from Segment E north of the Parks College Culvert

1945 The box Culvert under Old thry 3

13 down to about 3" of

5/13/61 Post.

1525 GOL 15 Still bring deployed.

The plan is to install all the GCL and cover it with grammbrane grammbrane of GCL was deployed. Photos of NW corner during placing of final piece and cell facing NW:

[1510 Departed site.

[Multiple Chine]

8/14/07 0755 Arrived on site Sunny, Wight breeze 66°F. The water has been pumped out of the box culvert under old Hwy. 3 and preparations are underway for deaning it int. Sediment stockpiles from north of the Parks College Owhert me Dies removed. The cell is completely covered with geomembrane and final welds are underway. Air testing of the stams is being done as scams are welded 0830 The geomembrane and geomet at the SE and SW cothers is being installed at the vinip 100xtions 0945 Photo of all taking NE. 1123 Photo of SW Access vanp under Construction. 1125 Photo of grading for SE access 145-1230 Work orew at lunch 1303 Photo of stockfile removal area north of Parks College Culvert.

瓣图用中心上 一片

1615 Deported' site.

1340 Box culvery under old Huy. 3 is cleaved of sedement and debris. All that remains is hydrospraying. 1355 Meterial is being shifted in Figurest B 30 that a longer drainage pipe can be installed.

Without Comes

8/15/01

0810 Arrived or site. Overcost, calm 72'F Bix culvert under Old Huy. 3 13 deands. Drainage pro in Signent B is being fenotlend

Geonet is being installed in the

0830 There was a report of a petroleum odor in the creek sed. across from an AST Rt Parks

Collège. Will investigate later

0920 Proto of cell facing NE

1930 Photo of SW access vary

1000-1045 wakly finer progress

1100 Investigated petroleum adar near Parks College Checked potential sources such as

storm water runoft and the day tank across the street

No apparent source was located and the odor is not present.

1745-1230 Hover over at lanch.

1350 beaut 15 in place and attacked.

8/17/01 0805 dimerrile weatheris Juny, 705. DB14 - Crew Letty lener on worth treatmet eller that 0814 - Overver of water truthet all-5 disings in place at allarga, ar degening grand over spogued 0 630 - philos overone of lay gravel over geogrid other extente : spreader soilorer all bern, building accounts trill 6637 - philo-St sproggard to builtond. - cre continuing to work or finding placement of poly line or with treatment will When ordered are creavating at the Pache called of friends motival and stockpilers at act M- well continue Steroperstan in 1/2 hour (915) excerate in about 30% done at the time according Att inche PM whoma bank that alsony for Parts Calle to J. C.S will be done

8/17/01 in 2 to 2 /2 weeks. What is left to analyte the sell: - Construct access range - 6" tracked in place fell above - prinary membrane, HDPE beoret Contextele Librer 2 ful of land to top it off ETC: 194 week of October 0920-phato studellizin geogral on -continues to los grand a man region I builde road to cell - are very staded material w/logalish
of this N
- dearing vergetin acron sheet at culvert 0945 - Lower Turner norte netry will PM mu- appoint day belornoto stained. clas la it suspert contamento be dan organistain the 6," of addition material allower capeuts to concern.

sampling? colofrante ince 42500 Me Marfle freduces compleys drew nexty bath removed ; reliern souple may not mut rightedill goals. The rapple per transacte somplan Fivil cost one for anylighted then exercition, unit to dong it for long 100 fet to 300 test proposed ly Solution. ptie sugester ley STANI, Carpoite carplin 1050 - 15th ph & STANT out at soluret removed your from Promas Calley plate - degree convert was noute 31/57 1112: Meeting & Solita / Micha issues: thank quit acceptana of all wheter days want to be dupping advante OSC will gen werland Atom fallow by allowil. -hildretten as con as pretay is an scholal such inddiana - Sampling second - cut inderegratoral tradore draighted.

8/17/01 -OSC Innestrup remoderal france semedial read more data - groater minter en higher concentrate disa lon as yough doubteam - sugartin by OSC especially rector to, car retur samples another aption - change preference of some parameter, von Diguttin notate suor voc ete-full scan - Dor't alter plan is sagget B - composite every 1100 feet instan of 3 samples ft. transect 3rd sigure - apartment, Camber street slopes - concerns about liability water ponded at creek hed 2 3'deep grading of creek, doesn't flow Fo, 3 81 issue plang a feet will high gratuicher or monday, Start just Tur deede of batter of West slage dufto home dip ratilities.

1200 lunch 12 50 back from level . activities - placing genfalue iera on - wother on Swall rasp, here storty by naturals sel regnort & - continue solunos oreanation 1400 - activités - geofat geotextile i place in W.T. ield, en von lagen grosel lager to cell. (500 comes) photo: Completed ramp, S.E. Correr ptato building ramp sou conse. - grader cell for with buildings. - stockpling and at sagnet B. 537. activities, same as before - placing pump in bottom of all in Case of rain Shots of above: North

1555: Planto of water Houtmant cell laying out gravel (FMST). 1630 - progress on cell: Both namps appear completed, or workindery done for cell more, lange - alla cectentres: continuis to spread gravel or water treatment 1705 Parish is at sed removal area nea Partir Callege are antening w/ excaration Dhartograph. Pause off site;

3/20/01 1500 The floor of the appears 1820 Arrived on site. Clear calm 120F to be 50% covered. The vices ramps to the cell were completed and Friday and 1601 Photo of cell facing NW material for the 12" layer started 165 Departed site arming in this morning sediment What Curred removal mar Parks College 17 Continuing and Solutin Juns will be installing GW wells beginning today 1822 Photo of cell facing NE. 1023 Photo showing detail of SE Access ramp. 1825 Photo of formed area where the storm water treatment facility will be focated. acc Met with Solutia JURS to talk about placement of tow wells. Intellation of the 2 wells between the week and the cell on the east Will be first 1235 Photo of all facing NW. 147 Photo of all facing NW. The drill riss for the 2 60 wells are in place and drilling has

i makawa i

5/21/01

1866 Arrived on Site, Sunny, light breeze
from the last, 72°F. Sidiment
removal at Parks College 1s
continuing. GW well installation,
past of the cell is continuing. 276
loads of material were brought
in ysterday and the cell floor is
about 60% covered.

1030 Photo of cell facing NE. The

liver drainage pipe is also being
installed in a gravel layer that
be covered by 12" of tracked in

place soil.

1135 Phote of tanks in storm water treatment avea.

He Wate of 1150 pipe and gravel in the

1152 Photo at all facing Sw.

1945 Photo of riser pipe covered with

gravel in the samp began removing

The SW ramp

13-8 Moto of the cell facing SE.

1405 Photo of scaming gotextile over

1417 Photo of installation of GW

Well TCMW-3M near the NE

Corner of the cell.

Ithe Began placing soil over the sump.

1445 Tracked in soil covers the floor

except for the high point and the

bottom of the vamps.

1530 Departed site.

Authort Chimies

A PROPERTY AND A STATE OF THE S

1884 Arrived on site Sunny, list breeze from 5/5W, 83°F Sediment removal near Parts College and GW well installation Fast of the cell are Continuing &C loads of material were brought in gesterday. The cil floor is covered except for the bottom of the SW ramp. Grading of the soil is underway and some will have to be removed 1000 Sediment removal near Parks College observed 1200-1330 Assisted with Site & project. 1 1500 It appears that about 10 loads of material will held to be removed : from the cell. 1600 Deported site. forther Curels

8/23/01

0815 Arrived on site. Sunny, Calm 80%. Sediment Removal near Parks College and Ew well installation continue The 2 GW wells on the cost such of the cell are in and protected by Jersy barriers Intallation of geomembrase his begin on the Past side of the cell and cotra soil is being removed from the cell Via the SW access ranp 1020 Photo of cell facing NW. 1055 Extra soil has been removed and He bottom of the access rang has Den prepared for installation of 1120 The cell to about 30% covered with geomembrane. It has gotten Mondy and Here are occasional brief, light showers. 1148 Photo of Installation of 75 toot Ew well near the NW corner of the 1245 Photos of sediment removal thind pizza place north of

5/7/01 100/f. 1330 Photo of cell facing NW. Cell is about At le covered with geomershines 1341 Photo of sediment being tured over for drying. 1610 The cell is about 15% covered of the seams is underway. 1650 Departed site. Withinst Curries

PHOTO PARIS

1/27/01 ETEL Arrived on sike Junny, calm, 70°F. Had additional rainfall Priday Dight (0.17), Saturday (0,22") and Sunday (0.08") JER 15 sections of hear Edgar to continue sediment removal work on installation of GW wells near the west side of the cell is underway. Drilling of GW Well TOMW-69 15 underway and well TCMW- 6H 13 scheduled to be drilled today. The soil in the cell is still very with and court be overed with germembrane until it dries more. The geomen brane that was faid en Thursday is being detailed. 1815 Photo of Sump. ogoc Photo of cell facing NE. EFIC Photo of drill rig at TCMW-65. 1015 Photo of sediment removal just south of Edgar St. 1052 Photo of standing water in the creek at Parks College. The water 15 12+ in places and 2 purps are being used to deviter the Channe

調性を購入しました。

3/27/01 cont. Lines detailing is nearly complete. The second purp is spirating to remove water from the creek pear Parks College 1530 Photo of western portion of cell showing wet soil 1535 Drilling is continuing of TCMW-65. US is attempting to develop the wells on the east gide of the cell. Detailing is complete and the liner over his departed. 1600 Departed 5, te athur Curries

8/28/01 (cont.) covers about 60% of the geomembrace 1350 Began laying getextile on the cell thorand the east 1545 Photo of cell facing NE. The 0530 photo was deleted. 1600 Departed site. Mathey C. Curies

11世,14年1月

· 19 多数是 排放性

1505 Arrived on site Sunny, calm, 71%. Observed work at Parks College and Edgar sediment removal Grading in the sump and west areas of the cells is continuing 0.30 Photo of cell facing NE 1940 Photo cell floor war surp. 0942 Photo of grading hear the sung '000-1000 Westly line states meeting 1030 Toured cell with CM and IEPA 1050 Photos of mud mats to IEPA. 1200-1300 Umch 1300 beanet is installed. Deploying geotex till 13 underwedy 1500 Die of the monitoring wells has born leveloped. The purps are causing problems at the other 1600 Departed Site. When C. Curies

0710 Arrived on site Sunny, calm, 75°F. Safety meeting is underway Sediment removal is continuing at Pauks College and Edgar 0120 Biggy Vemoving wet material from the cell floor 2950 Wet moterial has been stocker, led pear the Sw ramp for Removal Dry muterial his bun placed good is being graded 1030 Photo of tell facing Nt. 1040 Photo of grading hear the sup 1130 Began deploying geomembraie 1330 Grading of area near the Sw panp 15 completed 1400 Began deploying geomemberse on the cell Floor. 1600 Departed site. Tother Curies

8/31/01 Freday 8/3/10/ Friday 1103- antinuis attail work on cell 0915 - Pank divers set woulde liver father attention are the same is clear, 70 5 on puly line los soon set of gentettet far aford >/3 of minorare/ 1140-auttalund 1320 - At cell, are continuer detail gentertite docum. work, as houling experied to building up berm withdoze begin placing Charilla of all to complete) detail was consist of - phato (0934) repair aporation. an tests of patching). Same atten - photo (0936) lines layers activities de acontonum 1335 - Pauloffsite trage to office - working stockpile in regnert B 1009- Mand excountrasite at odgart fastaturbile. white St, have two excavation 15 15 - Paul borhat the site photo- exearch loading both activities detail work continuent in cell rapoblems encenters Signat DE Jul Mr about drother day of patching out total only detribute.

- continuing save extrities

- Coarriquettry at 1600 his total
for holiday yeelond. an testing of seems / could not ils yesterdly began if ray are into total ronk port court of not is to complete encaration to 1615 - Paux offrite dean Red Next week find be 40 % or the wire

9/4/01- Tuesday 0750. Paushtrin sile with inclaw N70°F - sayingout growt at all I some patietral left to finel, detail work - continuing excepts betwee Callage C1412 m Road (itely he dose by tomoron aftergoon, live dore by Theusely - will start lagge randinit then 0920 ament asterities: - excounting ditch for waterline feletie to water boutired area - gotinuing to lay out georet on - continuing Oxcapation oct segment E. 1020: Since last entry Continue layer and good an booting, satisfund additions, 1030 Paul off site for office of line

9/4/01-Tuesday 1310- activities continuing - patching an teste - staging gestacket to lay over genet parotain 4 full left tocore with good - cotening to Except ostockate from segment E 400 at execution at Elgar Rd two execution teams, are Mand 50 gard apart at their time. 1450 - Sine last entry are laying ant gentertile was goonet features continuing to extaint letch for unter leve, or var all at the this. 540- plato: exampling dittre-> - potating your testing continue trene 1600 - at offan St. excention poly 1640- photo (N) pateting operation.
1650- photo (N) pateting operation.
Insulating putting. left frame acterilier continuing 1715- Care site.

0820 Arrived in site Sunny, calm, 72°F. Ell wells have been purged. The geomembrane is in place and geomet 15 Derry laid on top of it. Photo facingNE 1300 Bestextile is being faid on top of the new geonet. Sediment is being removed from the creek between Parks College and Edgar. 1355 The final piece of geomet was 1550 Sediment removal between Parks Collect and Edgar will probably be ampleted tomorrow. Geotechie has been deployed on about 90% of the all and will becompleted tomorrow. 1555 pepartod gite. What Curries

9/6/01 0750 Arrived on site, Sunny, calm, 75°F. The sediment removal between Parks College and Edgar is nearly complete. The west slope is asserted with textile and is being sown. The first lead of sand was brought In on the SE vamp at ~ 0715 and the first load of sand was brought in an He Sw Vamp ~ 0800. 0900 Photo of all facing NE 1000-1030 Liner status meeting. 1038 Photo of sand placement showing area left for Movamer gravel at the toe of the past slope facing N. 1039 Similar photo facing west. 10th Photo of sump area facing NW. About 100 feet of the north stope remains uncovered by textile 1145 Toured all arec. Photo of sediment sixeening. All the textile has been deployed 1330 All the taith has been sewn. 1422 Photo of sand deployment hear 1510 Photos of sediment removal south 1600 peparted site. ather Cure

建设

0755 Arrived on site. Sunny, Colm, 73 F. The excavation south of Edgar St. 15 completed and the creek just north of Edgar is being prepped to begin expanation on Menday 209 Tours of sand were placed in the cell yesterday and more is being placed today. Sediment screening is continuing and some gravel will placed in the cell today. - 0815 Photo of cell found NE 1820 Photo of West slope and anchor truch. 1822 Photod all taking SW. 0825 Photo of cell facing NW. 0830 Photo of South Slope Showing ramps and trucks unleading 0350 Photo of utility french showing 2" Water line in place and conduit ready to be installed. 1600 Observed removal of mud mats

and equipment decon near Edgar

1030 Departed site

1270. STAPS Pauch is or note to aplace START CILLIEN. 1315 activities: delich by water treatment. ou primas barrais. + exceration; or excerety toon firety up lodery sodirist walt of 1430- in over pleconny buchel of essawa thacks prevaring the wore ta noth side of Agar, well puny 304 don a Norday | nore mud myn and except around mea. 1950. Coduit in, are from covering hand 1500 - cell - Continuing to load & spread and lex placing Therame gravel along busin ferm edge 1507 - Philo (NE) of this operation ather activity - gentliment to build been around all with doner. 4530 - at excentin lever as 1. your of placery write on roll side potordapely

9/7/01 1530 ant d, and continuing to decon Hadro Leveavola 16:7 at all continue spreading sand hargrand spread a will note/2/3 dor with random batton of cell it, Photograph of thesabove. 1835 - atericantil segrate/sell no war with dear operanta-Varishoff rite

9/10/01 0850-57AMI Pauli out on me wealther in clear upo F. Paul in covering with for Ceiver till the afternoon activities at the line -nut executing becaus of rain oner weekand - Hogewarmstandly at cell - preparis to occion craterial before it gar esta cell - cleany penn out along creek 1020 - present activities! shoto: NE saterial fractortale - surveying all tentach grado of cal?"

pand - mitry to grad get.

1055-41 segment E, Elgar St. - Pare purp for fixed, are examply yearling as gay to brus ocen cook to south side extension today start it roll aile tononour - Pavil off ute -1230 Currier on site. Bringing additional sand into the cell 1400 Photos of cell facing NE and sung. 1550 Departed 5, te. Cothat Connel

20年 日本 新工作 1975 - 1975

0805 Arrived on site, Sunny, Calm, TOF Sediment removal has begun just morth of Edgar St. The sand his ban brought in to the cell. Friding is underway. 1000 Photo of cell facing NE. 1145- 1230 Crew broke for lunch. 1230 Grading in cell continuing 1300 Observed sediment removal. 1390 Grave! placed at the toe near the Aco Photo of gravel near Si vaip 1500 Photo from bottom of Sid voip. Grading of sand is about 90% done. 1507 Photo of Do keing placed at the foot of the SE rawy. Do 15 being used in place of He Meranica grave) since it is in the high point and will make a better road. 1545 Departed site. Matter Currier

9/12/01 0810 Arrived on site Sunny, calm, 719. Sediment removal 13 underway north of Edgar St. and has begun south of Jerome Ave in Segment to The sump has been covered with geotextile and grading is underway. 0910 Photo of CCH facing NE. 0920 Photo of sump area. 1030 Creek north of Edgar 15 Cleaved to about 150'. (reck south of Jerome is cleared about 50 on the west side only. 1100-1130 Liner status meeting. 1200 Photo of cell facing NW. 1215 Photo of cell facing SE. 1400 Photo of work on south slope. Hio Photo showing graded slope on east side 1415 Photo of grading on south slope. 1500 Photo of Bediment removal just south of Jerome. 1515 Photo of Sediment Vemoval north of Edgar. 1600 Departed site. Withit. Currey

ar misser iii

9/13/01 1315 - Paulanneal polimidronovals 10 OTH Arrived on site Sunny, Calm 48°F. Excavation continues activity at the time /at Oprome 1/50 It with & pron exactly in Signent E north of Atter locator putty expore, surp Fosan and south of 1321 - Co coner in fullend to Terome. Grading of the area around the cell is intere lack 1325 - M sound exceralmale just king completed and the 0815 Photo of cel facing to nott of again du extends at the time proagot 400 parts of 0520 Photo of cell facine S. 330- at Comman Past - Kovin Luise 0822 Photo of cell facing SW. 1015 Photo of removal at Edgar is a site - proactity at all, only Dozin facing N. along porinet area of bern 1230 Photo of removal at Jerome taking N. 1450 - Paul off into 08 left of 1415 itoo Grading is complete said theund rowers for START to 1500 Deputed site ve annite. Mithiel Curry

计 1 次 3 排 美

4/17/01 0335 Arrived on site. Cloudy calm 68°F. Sediment removal is continuing between Jerome and Edgar. The road providing access to the all is being improved and sediment is being screened. 0915 Photos of sediment removal north of Edgar. 1950 Photes of low point south of Jereme with pamp and screens 1007 Photo of tackitier on cast side of the cell 1010 Photo of roadway on top of the south bern facing E. 1012 Photo of the Cell facing NE. 1020 Photo of grading to fill the low spot north of the cell. 1040 Photo of sevening. 1115 Photo of access food south of He cell 1150 Departed site. arthurt Curry

9/18/01 1030 Arrived on site. Cloudy with scattered showers, colon, 650F. Due to rain, no removal or seveening are huppening. Work on the access read is continuing. 11.45 Photo of south berm of the cell facine W. 1856 Photo of the cell facing NW. 1047 Photo of the east berm of the cell facing N. 1855 Photo of access road construction south of the cell. 1120 Photo of the crue north of Edgar. 1100 Departed site. athur C. Currier

9/12/01 Arrived on site, Cloudy, fight breeze, 65°F. No sediment Vernoval due to 1.5" of rain perferday. GW sampling is anderway. OTIS Photo of un facing NE. 1970 Photo access road along the west side of the cell. 1000-1215 Yest cell construction meeting. 1215-1300 Kunch break 1300-1600 Din Flan meeting. 1500 Departed site. Tether Curses

9/20/01 0900 Arrived on site Sunny, calm, 65%. Sediment is being removed south of Jerome and the creek is being pumped in the same area.

Gu sampling is under way east of the cell near Falling Springs Road. A new sciencer is being prepared for use. The concrete blocks are being installed on the SE range for the dumping area. 0930 Photos of excavation south of Jevene showing excavators, sit fences, pung and water in the 1000 Photo of all facing NE. 1007 Photo new sediment screener. 1045 Departed site. Currey

用数与护理的对一位

多门罐1999年代

Clean, Brisk wind 1/27/01 from West, 630F 12:415 Aprived So. Venone Ave. wi Ant. Heavy equipment was removed yesterday after & sommetim of sodinant removed and down. 302 John Fione can tinned sedimentranial completion of CSE Jerome AL So. Marinek having Trouble my Screen unit but expecting to start sectiment placement into call Tomorrow 9/24/01 1340 Keyn Turner arrives for 20min, 1401 Kenn Departs after briefing. than John From + Art Overnor 1415 Photo to NE of Cell photo of Sedinent from 8, te 19 being screened a stockpiled 1930 Deport SITE Thom D Day

9/26/01 Clear, cont, Sunny 6507 0806 Arrive Encoment tous sectiment removal @ between Kinder and Jeroma 0810 Arrive @ LF Cell Tailed 0844 1st LOAD of screened soil (clean) is offloaded into dump area 6 t LF Cell 0932 Clean soil for ramp Continues 1030 Equipment for moving sediment was brought into the 1130-1300 Lunch break 1300 Observed seiliment removal south of Kuder. 1355 Photos of aguspment in cell and The SE ramp, 1419 The first load of sediment was damped off the SE vamp. Photos of the first truckload approching the SE ramp and being dumped. Heo Photo of the first load of

9/20/01 (cont.) sediment being dumped off the So Yanp, 150 Biga grading the sidinent toward the south slope. 1802 Photos of sovered material in cell and grading toward south ited this of the excavator and the DE perting with screened material Mar The SE ramp 1609 Photo locking that toward the 1620 Departed site Withit Curvel

9/27/01 0752 Arrive, Sunny 52°F WINDS Light, South CS-D & South of Kinder 15 preparing for sediment removal 0801 Arrive LF S.Te 0810 Both offloading ramps are operational. Scalingat 15 stock piled on both West + East sides. No spreading of sediment at this time. Screen is operational 0905 5 Truckloads in 6 minutes 0915 Picture of Stuckpile Lordout + SCREEN UNIT 1042 WATER TRUCK ON ACCESS ROOM
1055 10-6 pushes Sectiment ON FAST SIde Towards the N. 1107 Picture to N of Spreading Scaliment Duthe East SIDE 1110 Picture to NE OFCell. 1154 Picture of Esst side LF. of sediment placement next to Toe of 5 Upe 1207 START SEDIMENT Placement along west side topor siepe CONT to P. 94

て# 575 1/27/07 (00xx) 1406 Observe point Fileten TesT From Bril Stuck, o, le. Test Pass The Sminute Pout Filter 1422 Screen DOWN, Sediment 1766 Sadiment is doing Though previous Loader 14602 John Flore pushes Sediment STOCK PILE ON SW CORNER TO THE west sile to e of slope 1640 Dopart Site

Thomas Day

9/28/01 0830 Arrive site. WIND STILL 6201 0842 UNScreened Sediment leading starting this morning and being placed on Floer from South to xouth Par Golder rep., 257 Dumptruck Logals to date. Sato operations, 09/2 Picture of UPWIND DIR MON. STATE 0914 Picture of Sump pump recinculating clean water (brown) lemanate. 0942 Picture of Call from 5 W Romp To the NE. 1107 Visit w/ Keun Turner 11:41 Break for Lunch 12/17 Return. MAVERICK ON Brook 1310 Screen 15 granatural 1405 Observe salinent removel on Kinder 1511 Steady Progress 1615 Depart Site

Thom Buy

10/1/01 1855 Arrive Whe Maranak worked on Saturday 75 planned Survy, cool 50% 2942 Parimeter HAIK conducted 70K North Toc-of-s'eps is 40FT away From Horn Covarad. Schoon is down. 10951 Puture to South it sediment Spreading activities 1000 Picture of LF Cell to The N.F. 1011 Pictured CSB Advacent to sle Shot to the South 1146 Asport For Lunch Petran 720= West winds 1217 werd on-Going. 1249 1331 Floor of cell rearly covered Salment Removel Sout Kinder continues 1620 Depot Ste

10/2/01 Sunny 61°F, Light Swind 0810 ARRIVE 0817 Tour site. Planning weakley inspection to lay 0905 Gaing Well 1014 Stort weekly Inspection w/ Golden + Marsack Rgo. 1105 Weckly inspection complete. NO ISSUES AT This Time. 1135 Kevin Tunner arrive for Usit 1151 Lunch Break 1227 Retyon Frontuck 1309 Frepart electrical panel Installing for sump system 1418 Picture of Site M" stockpile 1507 Depart Site How Do

Jolston Surry 62°F, honos West OFST AZWE 3112 Present of ALLU anticolated gereen developing windrow of clean soil Blown North toe-of-slope, 1945 Presume of electrical Bonel How Pump systems), 1040 Picture at Call to The NE 1057 Preture of Site M Stockpile. 1116 SANder AFRIVES Tour site 2/ Sandya 1209 Brook for buch Sanly to four The crack Southof Judith. 1233 Return from Lunch 1246 Four Site M' w Sandra Brown 1528 Sandra Concerned on impacted. higher in arest & sediment Stockpile contact nator, I explained That This project has BMP'S well designed and suited ton capture at impacted sedaments, She still does not capture the concept. 1347 Sandra departs site 1404 Allo scien continues to governte Scran Sadinate

10/3/0; (cont) 1428 ALLU gode completes toe-of slupe for N beam. Generating screens soil for Sump aroa. 1510 John expecting the President of Solutiatoday 1538 Tourst Site "M" 1601 Tournet 60 CS O South of Kinder 1630 Picture of Sectionant Losding South of Kinden 1640 Deport Site Thomas Day

10/4/01 BC, 62°F, 3090 Chancer 0706 Arrive to Site John F. reveals that sectionent SCHOOL IS TO be decored and remed from site 6741 Site "M" Stockpile is greatly dim whed. Sediment has Tranhal-10 well. Maverick will continue to Land and Place ~ 2000 yd) day and expect Site M' completion IN 6 days w/ good weather. Although, rain expected today, 190,17 North Toe-of-Slupe Screensl material was Footbookern and Trocked-in Last evening In preparation at Rain today. 1992 John From says loading of sehment will stop during rain, Prancisk will stop and partiarm montenance, Once rainfull stops, MANCE IN will scrope the top bagen of sederant within the only and resume lending + corpacteon of sedimet 178 Bypant site to TTEMI office Continued on NET page

10/4/01 (cont) 101 1530 Rature to Sitis After meeting. 1534 Picture of LFCOII from Sw offlord ramp. Additional screen soil was placed adjacent To SW rampand story The East born too-of-slope. Expecting rain tonite, so section it placed in LFCell is well groomed compacted and graded for rain to drain into the sump pit. 1601 Sediment from Creck Just north of Site "4" sectionant stockpile is being removed w/ Long-reach execution. Site in 1 stock pile has 250% volume ramaringing at this Time. - Picture of Site - M 1711 Picture of ALLU screen @ NE Conser of LF cell on top of MUD mats 1802 Expecting 1500 cyds today 1815 Depart S.Te Thom Den

10/5/01 Ran overcost 51°F Temps is drapping 0051 Arrive to site All sediment landing activities are Short down Today, Only Equipti maintenace will occur today. 0809 Richard (Golden Rep) and I Tour The LF cell, No standing water is observed in the Cell. 08/2 Picture from SE, ramp to the N.W. Picture from SE, rampto the West Ficture from S.E ramp of Site M and down operation of Screen unit, 0930 Dyra.T SITE. Flor Hay _____

10/4/01 P/C, breey, 620F 1231 Anne Site Per Richard, the site recieved 0,55 inches of Rain on Friday (10/5/01) Due to more recent favorable condition sediment withou the LF Cell was determined sufficiently dry for resumption of work today, 1244 Picture of North beam (minor standing mater in small, localized area,) Preture of West Bern 1406 Picture of LF Cell from 5 W Loading ramp, 1442 2 Preture of Soil stample 1618 Richard & Eric conduct moint. on capilling collection purp. 1650 2 pictores 15. this I worth 1800 Departs.te

10/12/01 No Sedent work today 0930 AnnivE Per John Fall work Shut down due to rain yesterlay Maintenace of Road & Equipt, for Today, Keep up papermary, John colled Kouin Torner yestonery re; backers asbestus 1120 utility line (4") by excevation, John calls this a non-issue but called Kouis to indicate That Pipe was In Low risk area and a champ repair was made. waters have was Left orduring The repoin 1018 P. true of LF Cell from SE Ramp Picture of Soil Stockpile 1100 Deport site; Them Hay

10/15/01 OUENCHST SE'F, Raw expect. 0751 AMRIUE 0752 Picture South Sof Calibra. 08/1 Loading out soil tore stockpile 0817 New rep from Golder, Juston Richard on Vacation. John returning today. 0819 Allu 15 generating screened material for west beam. 0940 Deport for Lofter Stark project 1740 Return to Sitis Work in progress 1400 Deport for DOIERUN Thomas J

0955 Arrived on site. Sunny, strong breize, 47°F. Sigment Dis excavated nearly all the way to completed today. The stockpile is almost depleted and should be all gow by COB on Wed. 1045 Photo of cell facing Nt. 1047 Photo of Segment Befacing 1049 Photo of the Alon working clary the south slope. 1500 Departed site. (fithing) Currer

10/17/01 0820 Arrived on site. Sunny, calm 454 Work is continuing to complete signent D at Canckia. Stockpile removal 10 continuing. The material in the cell is somewhat wet and is being turned over. The pump in the NW Correr is removing water from the low point 1001 Photo of cell facing NE 1006 Photo of Cell facing SE with sump in foreground. 1017 Photo of cell Facing SW. 1833 Photo of Stockpile area facing NNE 1057 Photo of excavator and remaining sidiment at Segment D 1412 Departed site (Mitter C'innes

0815 Arrived on site. Sunny, brazy, 48 F. Creek Segment D is completed and the executator has been removed and decenned Water from Segment was pumped with the frac fants last night and is being treated and discharged today. The stockpile is still being removed The Alon has placed screened material along the south berm and is now placing screened material along the Exist berin As of gesterday, about 19,860 yards of material had been placed in the cell. forthist Curry

Tollalei Sunny, 5801= 0930 Arrived on site. As of yesterday 2 21,230 y 1 of sed ment was placed. 6945 Picture of Soil STUCKpile DOG Picture of LF. Cell From Shrang Allu is screening soil along hiberon icallis stockpilled in LF cell to Allow drying of Sediment Contained in the celli 1032 Picture of top Layer of Sediment removal + londing from CS-B (started This morning) 1033 Picture of CS-B w/ top Layer removed 1038 Picture of CS-B to the So-th of typ Laxa of sediment removal 1142 Picture of Soil Stockpile.

10/22/01 OVER CAST 630F Rain expected tonite 0949 Arrive or site. HII sediment removal today comes from CSB only, Alou is screening soil for N. Bern 1011 Pedure of LF Cell From Swrongs 033 Picture of CS Soil excountries. Maverick will remove impacted sadiments from CSB invent today, 103 Kevin Turner & Bill Bolen on site today. Seil stockpile is gone. 1152 Picture of former soil stockpile, 1255 CS-B cleared N 150 To The South 1344 Preture of CS-B excavation. From Jersey barries Near Queeny, "Organo" smell is obvious, but no recorded on PLD. 1502 Despir execution weer Jersey barner is oil (retinery) lader ul small amount of perched Ground water, 1617 Preture of US-B From East side of crock, John Fione reports that soil is "Full of coppen", 1706 Deport site Olow Vois

10/23/01 65 F aloudy Pers 1102 ARRIVE LIGHT RAIN Sediment is removed from CS-B today untill rain forces A Shutdown 1117 Picture of LF all From Swrap 1144 Picture of CS-B from Queeny Ava. 1317 MAVERICK IS Spreading mulch on East side of cred wear Soil Stockpile, No wen rain tall yet. 1330 Landing Sail From former Soil Stockpiles 1429 Bicture of furner Soil Stockpile. 1510 Not much excountion Landing of soil tucky die to anticipated Raing That old Not come 1600 Depart Site Thomas Dun.

10/24/01 619 Chudy rain expected 10/25/01 Olagn, cold, Windy 450/= 0830 Arrive on site. 0950 Arrive on SITE Rain expected tolay so No Sediment from as-B 15 to be Soil Isodiment will be placed Stockpiled for etune londing INTO LF Cell Today. + removal. No Sediment 0850 Agos-T Tun Leften Iron will be placed into LF Cell tala, 1100 Return to Site 1011 2 Pictures of C5-13 Midpoint Surry now & MALCULK 15 1206 Depart site for Lunch Stock piling impacted sediment 1241 Return from Lorch 1318 CS-A soil stockpoling ian CS-B Adjoect to LF all, Picture of CS-B Midpoint Continue. No obors today 1130 Picture of Esst Derm 1504 Preture of CSB from Frost Book to The North Showing Looking North 1539 Over ,60 inches of roin 1945 Sureying The LF Cell Today yesterday, I asked John From 1330 RAIN MARIVES to inspect all forces that Tarping soil stuckpile in CSB. may have been damaged from 1400 Go Back to Lefton & Secure high winds ... Poll Rep # 6 for Art Ourren 1621 John expecting to Land soil Into The LF COII Tomogram 1430 Dypart Site 23829 413 53 04 10/23/01 1728 Deport Site Thomas Day

10/2019 Warry, COLD + Surry, 520F 0956 Arrive on site Sectione + removal from CS-B, Kesterday's stock pile's are being loaded or disposed in LF Call tenley, 1039 Fump from CS-B near Query is being resolved to best devater remont rois Accordation Freture to the South From Queeny 1847 Gigane oder is present during removed of sectione + from the invent to bottom of CS-B Neup aueloy. 105% Sawla Brow touring the Site 1335 Sanda has Two concerns A) Door from and B) Contact water from CS-B John From offers an explanation and provides tour of pump +trestment system, 1449 Maverick will remove goo fabric and replace later. 1530 Picture of Site M w/ Hzo Truk Profess of LFCed From She many 1539 Prature of CS-B Near Quary, 1630 Depart Site Holin Bay

10/27/01 Clear, delet, 340F 0751 Arrive , Maverick has placed Geotextile in CS-D near Quecup Are Loste anget, No picture yet (wait in justil 12:00-2:0) 0912 Lung wach secondatus now - removing Selt Com Guerry Her Sump p.T. 2943 Villetine - 1 65-B Scalment Rimuval 2) Picture of CS-Bfram East book 1022 Picture of LFall-Gran SW ramp 1346 Protocof CS-B from Stell 1121 Preture of 20 mil poly Installation into CSB, 1147 Picture of Gentertile placement 1255 Producet grant Filled pile from West book of CS-B 1350 Picture of Technician cleaning Assured Pipe. Grout Filled liquid is PRESENT.

医毛虫虫 网络维护男子女子

一 中国 建酸红色层

in the

120 polardar (cont) 1476 Picture of Stormwater sump Cleanert. 1502 Acture of Sump Change 1503 Picture of Sumpared upstream of US-B where Jersey terriers are to be placed. 530 Richard Takes pictures of Over Flow Pipe, inill request copy for Kovin Turnon benefit 1615 Depart Site Thom Son

10/29/01 Sunny, Clear 45 F 0851 Arrive on site, I contacted Frie Kengen to seek approval to cicliver photos of overflowpipe to Kevin Turner. 0917 Sadinet removal from OS-B continues, Stuckpiled sediment IN INF. Cell is being placed & Comparted Alou is screening Suil for East bean 0947 John Flore gave me Dermission To provide Koun w/ phatos. 1029 Just not w/ Kevin to approx of 1) Existance + location crioverflowpie 2) Impacted sediments, its Queen Surp pit. Kevia will contact John F and Mike Light to discess whats next 1) Sample for VOA, Semi vous 2) Perform head spice it Solutia 15 Not willing to analyze. 1106 Informed Eric of Keyn's interest to sample. 1229 Picture of LFUI) from SWramp OVER

politica Cont. from 121 1312 Picture of CS-B tothe South 2- Protonos of Querry A-c Sump. Picture of CSB executation & 200' (2010 Queen, Auc 1410 Phone call To Brown Williams, Tom Kinds, Karen Kinding for SOP of Head space analysis for 1915 somple data 1551 June Dingo 312-856-8765 Responds w/ SOF # 2109 of Scoticio 2,2 of EPA Response Team 1557 402 sample Jan w/ tefler Lid & sample port collects Jan 60-70 % Full. 16 10 Sample is shoken vigorisi, for 60 second and allowed to sit Fun 30 minutes 1641 Sarple ned Tection port was powerhated w/ PID Probe, Or Gover droped but no you Locals show on PID 1732 Depart Site Thon Day

10/30/11 5 my, clear 55 x 0803 Ample on Site 0816 ON-young removal and lading of Suil from CS-R. Survey results of LF Cell = 15,000 yd3 compacted, 0826 Picture of Intallian of relational 60 mil liner wear "ootkt pine, 0851 Alov is placing screened sectionent INTO SUMP COLKETION P.T. (Picture) 4 pictures of C5-B removal from East Bank of arek 0901 Picture of LF Cell from West berm 1011 Met w/ Kevin to discuss the headspace cample results, Kevin called Fare inquiring into status of nover-Flow Pipe's 1107 Parsonnel monitoring inductes a volitile concern. Note: CARbon Tet? PCE? PID ROADINGS by NOT Sustain , All rendings were instantaneous.

t in viting

10/30/01 (Cont. from P.123) 1121 Picture of CS-B execution & 500-600 South of avery Ave. 1410 Site mirk shotdown due to brook through on respirator contribes. 1455 Emc 1s instructed by John to cover the area of plastic and more down strain of area generating strong odors. 1507 Preture of Plastic covering Sediment with Strong odor 16/2 WORK Resumes 1641 Manerick will rant a 40 monlitt to be delivered Tomorrow 1722 Depart Sto Thom Day

10/31/01 Clear, Surry 550F 0811 Arrive on sita Message from Rob watson (IEPA) re Site visit for Tumurrow 217-524-3265 0827 Talked w/ Rob. Hais comming Tumurrow, Movement was notified, 0855 3 Pictures of CS-Bschnix 0943 Kevin Tuner Arrives on-site John Flore 4,11 develop permanent records (GPS) for location of Over Flow Pipe, 1028 A100 is screening soil for 1117 Picture of MARLIFT roundy to goply from 1151 Pidne of CSB 300' Southon avery 1205 Sandry Brow called She wants! 1) SATILE 2) Survey 3) Black off Flow of 6, W.

1239 Picture of CS-B of field persond
Placing liner up the mest Bank
1425 Picture of CS-B geotaxtile placement
on top of Linea
COAT Mixt page

10/3/10 Cont from P. 125 520 Sandra Bron Colled me again say's she spoke ul keun Turver and be agree's with her on 1) sampling 2) antisers alter 3) GPS ar Survey The "over How pipe Also, she will yisit The site on Friday 11/2/01. 529 I contact Koun to inform him of Above Kevin instructs me to contact John Flore and request him to neet n/ Sandry and listen to her concerns, 1551 Maif w/ John to pass along 1) Survey The Hoverflow pipe" 2) Install antiscep dollar 3) Sample The source John informs me that his ollent 15 rot willing to sample because request # 1 + 1 + 2 will be performed. John places a phore cell to Kovin Tunner 1623 Depost Ste

11/1/01 Cloudy, 302 rain, 620F 127 0802 Arrive on site 0816 Rub watson calls to check on Rain at the site, ite will visit the site today 0832 1" minus (Densegrade) rock is applied to geotestile in CS-B Channel, Sodiment loading and disposal Continues from ES-B 2 300 Sath of Queery Ave. D-4 Pozer pushes Rock in CS-B Plature of CS-B from Queeny Picture of D-4 spreading Rock, 1022 35 Rolls of delivered to site today 1055 Rob watson, and others From IESA Arrive For site usit 1116 Deport Site Thom Day 1300 Arrived in site

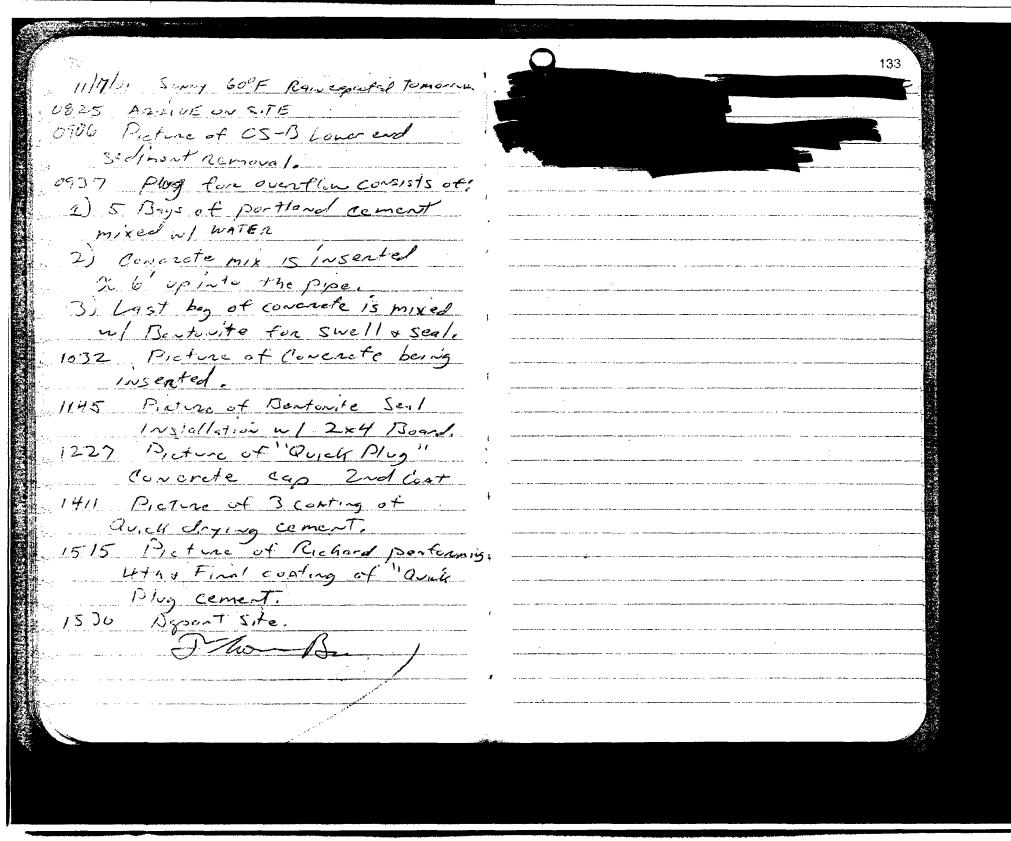
1300 Arrived in site
1600 Departed site.

Other Concer

11/2101 Sunry, 52°F 08/2 Arrive @ Site Sordra Ban expected tolay 0833 John F. say's he will not Collect samples Tolay 0841 Phone call To Brian Williams to discuss sample Buttles 0919 Dyport Site to obtain bottles trom Storage focility 1117 Return w/ Baltics 1205 Sample Collection going Slow, only 3 VOA's collected At this time 1414 Pipe not yielding much sample. A Plaste corketion catch tray WAS INStailed to collect Sample into 5-gal Braket 1619 Bucket in place I will return on 11/3/01 To collect The west server of water from Pipe 1730 Perari Site

71/3/01 Sunny 610F 1002 Arrive on site 1117 Somples collected 80% complete. I mil resume on 11/5/01 1310 5 pictures of pipersito 1447 Pose-T Ste Thomas

化等增位 海拉



11/6/01 Sunny, RAINESpected, 48°F 0930 Arrive ON SITE W/ PON CARONOLL 0917 Picture of the Souther end of CS-B Sediment Ferrival. 0922 Picture of Completed Great Plus of overflew PIPE, 0956 Asport Site CTAKE RUN CARROLL to MEET Koun Turner) 1/01 Return to SITE RUN CARROLL AGRANTS 1317 Picture of LF Cell from Shrango 1728 Prefue of CS-B Midport looking to the NWest. 1448 Picture of CS-B Southern ead Near Judith Lane. Little rain today, operations continues 1502 Picture of sesiment removal (stockpile) from CS-C just South of Judith Lane, 1509 Picture of CS-Bjust north of Judith Lanc

11/9/01 Odd, C/cg2 4/0F 0930 Arrive on site, 0959 Picture of LF Cell from Sw Ramp. Picture of LF Sump area Picture of North Berm ul Plastic cover on North Bern Linea Soil stuckpite 1021 Picture of Southend of CS-B Sediment removal 1024 Picture of "overflow pipe" after completion + Full oure of Quick Plug' concrete 1041 Picture of CS-10 South end. 1107 Ngart Site 1349 Return to Sitts, 1548 Picture of CS-B Southern end showing geotestale blocket 1539 Pretue of CS-B Midpoint 1606 Picture of CS-D Midpunt grading + excavation. 1618 MAVERICK will work on 11/10/01. No tetratach coverage mill occur. 1658 DE 15 STUCKIN LF COCI. 1733 Agait Site. Thom Id

11/12/01 Sunny Clear 45°F 0907 Arrive on site, met with 1920 Picture of cell from SW 1935 Picture of all from Sw Horas locking East Fly Assigne in for minor stabilization of insistere. De it problem wind heading Worthwest. Spoke with Mavenik (Enix) to keep movement slow and low Pittere i) Beelman Truck unloading 0950 Picture of dust cloud unvin across CF. Not going off sith. 0955 Spoke with Tom Binz regarding potential dust problem. Luke from El handles air monitoring. As long as Erik is made aware of issue and tries to mitigate problems 1020 left to meet Kevin Turner at lefton 1115 Back on site. Checked excavation South of Judith. 11:35 off sike to office

11/13/01 Sunny, Clear 55°F 0350 Horive on site Met with Erik Kemper to discuss 0855 yeskerday afternoon of this morning no right fromt events. Fly Ash effective Picture of CS. Bjust south of Judith Lane. Picture of CS-B North of Julith 0935 Lone Plucement of liner complete. Picture of CS-B. facing NE. Liner (geo) 0940 being constructed Picture of CS-B facing S. Road 0942 creek bed. Picture of CS-B Pipe. Extra growt looks solid. No leaks. 1010 Spoke with Erik. Meeting of URS and Solutia this norning to discuss design Maverick working from Caholia st. N along CS-C' = eventually nee ting i'm the middle from CS-C S of Judith Come Filling in LF cell in SW arrer today. 1035 off site to Cahokia RO. . CS-C 1130 On site Spoke to Erik, moving statile from CS-C and building road.

11/14/01 Sonny clear 60° 0910 Onsike. John, Marathan - Ashland at CS-C mar Capolin for excavation near pipe line. 0930 At Cahokie St. pipeline reps and crew in middle of CS-C - waiting for smaller has to excavale near pipeline. 0937 Picture of CS-C looking South. Working on West wall. 0955 Spoke with John regarding excavation Task is going well. Pipes cheeredy exposeD. Missing along from whiter to south end of CS-C with gross road already in place. 1010 Spoke with Tim Binz, IEPA (Sandra Bron I will be on site (11:00. 1016 Picture of CS-B facing East - newly goo-lined area u storm water diversion in place. 1021 Picture of LF cell from SE Ramp boking along East Berm. 1050 Sandra Bron on site. Met in parking lot before signing

11/14/01 (Cont.) 1110 Picture facing NW of SW Ramp Unloading soil from CS-C. 1130 Iom, Sandra, Ron on South Bern discussing oders. 11:40 Viewed Teachak collection area 11:45 Spoke with Rich regarding stockpile along N Berm - odiferou. 11:50 Sump area N near Queeny, Sondra questiones discolaration of water. I mentioned discussion with Rich that Iron may be cause of diswoonation. Sandra disagrillo, We decided to take up with Kevin Growt pipe looks good. 11:59 Picture of discolored water in 12:12 Tom wants to review pictures from 2 weeks ago to find phato & go Axtib tabile (rear CND a) SE ramp out) for precipitation Photo Icoking East) standing water. 12:30 PAC off sch

11/15/01 Sunny, warm 60°F 1051 Picture of sump facing East. 1057 Spoke with regarding movement of material in LF Celly Sizing makrial on N Bern working toward leachate collection. Today might start building up leachate collection system - more likely tomorrow. 1105 Picture of CF Cell facing N towards leachate ump. 1220 off site to view work from Capokia St. - CS-C. Cunch 1320 Piture of CS-C looking North from chokia st. 1330 Walked permeter of 4 cell. 1350 Ron Carroll off site L See

11/16/01 Sony, warm 65°F 1200 Rom Carroll arrived on site. John having lunch, Spoke a-bout the schoolike and tasks this neckend. No plans to deviate from plan to continue with CS-C - taking advantage of the weather. Working on Safunday as acl. 1230 off siled

11/19/01 Crercast, 45°F 0935 Ron Caroll on site. 1000 Picture of CS-C after weekend sediment removal activities Facing South from Judith. 1005 Picture of LF. Ceil facing West from East Berm. 1010 Spoke to Erik . Planning on completing CS-Cby and of Nov. starting Cs-+ hopefully 1- or 200 week 1 Dec till having cleaning and anullary things to do. Saturday 11/17 work went invothly. Finished South and of CS-K near Colde. a. No harling today will hand 1045 Picture of CS-Com Cahokia 100king North.

11/20/01 Sunny, Cold 380F 0905 Acrise on site. Met with John. Hauling today from CS-c but not as of yet. Spoke with Rich. He polled 18 samples from CS-B neek but for Maverick upsterday whin Ron Carroll on sike. 0945 Picture of LF Cell on North Berm looking at sump. leachate collection system. Picture looking Sat decon 6f dozer. Picture looking SE at cell - rough gradul. 0957 Picture looking from Judith at CS-C prograss. 1126 Picture looking from Jedith at CS-C stockpile loading. 1205 L-mh on sike with crewl 1230 Spoke Tom about status of 1345 Review of CS-C excavation from Schoolst. 1350 Pioture of CS-C removal looking East | South East . Picture & small toader.

13:55 Off side

11/21/01 Surry Clear 40°F 0930 RAC arrive on site 0941 Picture of CS-C facing South Hauling appears to be slowed by lack at sufficient entry to temporary road. 0951 Picture facing NW of CF Cell 1049 Drive to School Rd. for observation of CS-C excavation. 1104 Picture looking SSE at stockpile - CS-C removal. 1108 Picture of barrier off School Rd. facing East Looks like easement. until 11/24/01. R C Seo

11/26/01 Rainy 50% 1210 RAC onsite Light rain. Removed in progress Rown not factor as of yet. 1.59 Rain picking up Crew shut daving CS-C. Dving work in cell.
14:30 Cf site

11/20/01 Clarky 450F 1200 PAC onsite. Spoke with John Depending on weather, should be done with CS-C by Saturday 12/1/01. Show election is approximately 2 weeks. 1215 Sandra Bron is on site for a meeting with USEPA and of persons from CHym Hill. 1235 Stoke with Tom. Will stop by site. 12:45 Met with Sandra briefly. 1250 load out at CS-C on hold four 1315 Met with Sandra . Mile (VSEPA), Tom Baz to discuss pipe in CS-B. Directed greations to Revin 1340 Wolk through of Cs. 3 . LF Cell M30 John met with IEPA: USEPA reps to bur site · discuss pipe in CS-B. 1500 Spoke with John about him getting a apy of surp photo From Kend JJ CS-B Clear with Kevin 1515 OFF Six

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三海河 华野美国大学

11/28/01 Cloudy 6/10 30°F 1305 RAC onsite loc' of CS-C left to excavate John hoping the wenther cleans for tomorrow to tinish by weeks end. 13:15 Spoke with Ton Binz - will drop at agripment to let tone Site after leaving Dead Creek. 13 45 lett for letton to meet Tom and Kevin. Kevin ok'd my passing a photo of CS-B sump one No pipe - analytical results 1358 left for Deal Creek 1410 Picture looking South at CS-C Crew positioning equipment to avoid grobbons with rain. 1415 Back on site. Met with John 1450 Spiler with John about pring System for CSC stonding water. Everything is tinctioning. Maverick installed sitt fences for last 100 of impacked sediments. Wetweather 1505 off sike 7 (00

12/3/01 Surry Warm 60°F 09:45 PAC onsite Perute from CS-8 pping have been forwarded to John Erik said that they are boging to finish CS-C-today 1035 John feels area near church on He3 may De done smetime this wellceafter permitting. This is a CS-F area, but the main stratch won't be for 2 ussks anso. 400 Picture facing S of CS-C near completion. 403 Picture facing N of CS-B from Fudith. Standing water from last weeks rain fall. 110 Picture facing Nw from 5 berm of guary rock instead of fly esh to minimize dust. 1155 Tom Bine at sike Discussed changes to sampling trug wency. 1250 off site to CS-F shurch. BOI Picture tacing SW looking at CS-C stockpile - grander.
1330 off site

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12/4/01 Sunny warm 680F 1225 RAC onsik. CS-C main excavation complete. Touching up sidewalls. for placement of germembrane. 1400 Site walk. Water still on creek - go umbrane bed. 1425 Picture from Judith facility South at cs-c.

12/5/01 overcast warm 65% 1100 - RAC ons. Fe 100,083 gallons et leachate from last wed 11/25/01 flow meter installed. Treated 96,000 gallons since monday 12/3/01 from cell. Nothing from week. 1125 CS-C is complete feener my 325 mit today. Pulling samples next week from CS-C. Next two weeks pulling samples. Crew shot down last full week of December (week of christmas Points 14,15, - 14 in CS-B sampling went done when water goes down. 1230 Picture of CS-C from Judith facing South. Completed excavation 1232 Picture of 315 un. + king decond. 1240 Picture of LF cell from & born 1325 off site review S end of CS-C and CS-E prop. 13:43 Picture looking SW at creek bed after new box culvert in CS-F maverick shoring up hand road. Dove length of road parelled to CE-F. 1400 off site

12/6/01 Overcast 50°F

1004 PAC on site. Rain last night.

Fabick maintenance rehide stuck
at CS-F are where clearing is
going on Moving stock piled
material Joday
1030 off site

1405 RAC on site . John out sick. 1425 Picture facing NW from S bern at CF Cell

1435 CS-F. Met with Erik regarding sampling next week, TCLPs will be done in addition to Totals.

Speak with Kevin regarding frequencies

1440 Printer of stakpile from CS-F

pler church

1500 met with Tom Binz to discuss

sampling protects.

1515 Back on site

1530 Off site

Care

12/10/01 Sunny 40'F

0930 Onsite. Area between Etc. 3 i Caro 1160. done over weekend. Today working on area blu Cargill: box culvert. After box culvet, de watering is on issue Beaver dan mond so depth reduce O. Enk going on vacation this week. Another replacement on site to do Sampling tomorrow. Stake off sampling Tocations today 1015 Are CS-F at Church . Picture (7) taking Sw at excavaled creak bed. 1035 Spoke with John and Erike about work over weekend. Church wanted to pave lot To grant worked until 8:00 pm Saturday changes in sampling plan to be discursed in a meeting with Erik today. Picture (8) taking HE at stockpile from area to ND box culvert. Picture (7) facing SW) drained neck bed. Drove in area buy

1100 Back at field office. Surrey Phase 1 36,622 y companies per Rich.

cleaned along first 300') C5-F with

John A. Fiore

Construction Manager

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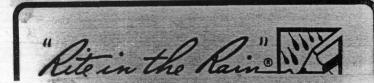
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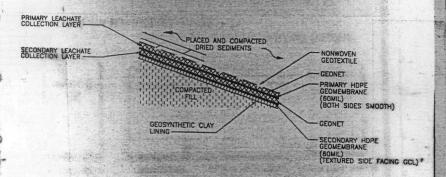
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Field data . . . if it's worth collecting, it's worth protecting.

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12/10/01 (Cont.) 1310 Prove to CS-F area, Stockpile removal climost complete. 1330 Kevin Turner on site. Explained the importance of the time variable way partorms the VOC sampling. He . John chove to see CS-Free netland. Plan is to begin excaveting gouth of new culvert towards wetland. Dan How at bowl, pump from upstream areas into dans area Noithe of new box culient. leap food after that - dam-pump. 1345 Rich and Erile making first state S at CS-F then moving North. 1400 Spoke with John, Genin is ok with sampling plan Not soing to use the En Go sampler for Voc. Pull Sample from compente timely with wo head space, load it ice Mest quitely . Kerin stressed minimal hand ling firm in sample hand ling 1430 Rich : Erik Began staking off CS-T- Poton facing NE Placement of colvert affected 400 placement of points

12/10/e1 (Cont.) 1500 Walker off CS-E. Questions arose as to whether culverts are toleulated into sampling 1545 Kevin Turner specified keeping the # of samples ; just change frequency. Document 1600 Spoke with Erik i Lich about Cs-13 traguery change. 2 TCLP: per letter don't have to be from manning 3 points. No TCLPs were done, so one can be pulled at A. C3-B, T14 1615 of site

12/11/10 Summy = 45°F 12/01 Pain, cold 350F 1245 Arrived at CS-E. 3 trucks lived up on levy. Exercation being dose on CSF'b/W Not culvert à bendi 1250 At office. Manerick replacement for Erik, Ken Lafferty. Discussed sampling plan with marrick. Golder . Footoge is less than anticipated, so sample trequery 1340 Observed Rich on placement of stakes at CS-C. 1420 CS-C stake das CS-C-TI will be TCAP 1430 At CS-F for 1st sompling. 1445 1st event CS-F-T2 in front of church 1448 Done with 12 overt 1529 Back on site. Observed samples being > prepared & pulled from bags. Discussed tell of CSF near bend. 1620 off site Photos from Rich!

11:45 Amired on site. D'scussed sugility events. Stopped raining for the time. Ken Latterty update I drawings to reflect placement of TCLP points. 1230 Back on site. Met with Ken · Again to discuss additional TCLP points. at CS-D and CS-E Rain storted again Rich and Enile on site your West discusses additions and updated Sampling plan. 1325 Arrived to CS) for sampling. 1407 Done with CS-D sampling. 1445 Sangles being placed into jars. Observed sample media transfer. 1510 Spoke with Eak about prossible problems tomorrow with raine photos from Neh!

12/14/01 Cloudy 35°F 12/13/01 Overcast 45°F 1045 Onsite. Met with Rich - ENh 2800 RAC onsite. Ken and dich discussing about CS-C sampling. 9 samples vain from last night, Incident war + deplicate. Samplede proposes. Nk. 3 and 157 of motorist hitting the sign for construction les getting information from police. contamerized. 1200 Erik went to CS-F to view excavation - to determine it made will be \$20 Rich and I drove to CS-E to viar Picture standing water in creek bed. Not atche done today with recent rein glitabley hindering operation. able to jull samples because too 1300 Discussed additional sampling extents dep enide - not representative. with ken, Erik, and Rich. Added 0845 Ken arrives at area. Agreement is made to wait one hour to TCLP of bead on CS-4. Will sample in CS-E tomorow as much a they can. see it mater pumps down enough 1416 Marker of recent drawing with added to sample sample points, included CS-B TKS TCP. 0900 Back on sike trailer Requested 11×12" copy of site sampling mag. 0932 left for CS-E to observe purping 0945 Observed purpling from Edgar only 1445 Spolanther gam about sampling 2.3% in last home. Not good 1450 off site starting at oppose &: 30 sampling protocol. 0950 Observed CS.F.S.) new colourt. Picture looking su at meak 2956 At CF all checked leached prop purpose store persons lost 24 hrs. pur Rich.

石模様

12/18/01 Overcast. Orizzla 40°F 12/18/01 Sumy 50'F 0159 Are one to Rid - 1km 07:30 Had a call from Rich som might sample Cos-E depending sangling ow wells. on whether can from down. 095 To is & to got rimany samples Picture of standing water of steen Pinh from Golder aunts to sough an extra point in CS-E poo back from CSE sempling 1015 Pailing CS-5 7, 8, 9, Pichiel Crew facing 1:40 B. E from CS-E 1145 off side louch 132 hade on site. 13 40 Drove to Gw wells when hick sampling 1350 Picher fairy Sw at CS-F exemption 1355 Ats.

12/20/01 Summy C15 250F 0750 PNC on site. colo converte orterias in all. 53 30 ich lookin NE from all bern. Money executed sof ments from CS-F 8-3 File with the looking to single rist & Colothe ethones purchy CSBH 0843 At CSF. still cleaning stock pile from exercation last useit. Atte new neces 245 off sile 1230 ist in site. CSE not ready for sampling CSB pempel - receipter sampling. Dion to OE17 area to object purpose 13/5 At CS-F orea - og mip ment being services. 1325 At mot most to ebserve Geo : sel compling R. L. JEH. from Gilder good 1300 ACS-B started CSB14 1250 Dae with 1314,15, 16 -17 sample betast read B.6 better spot than B-7 due 410 Pour -th Cob sangling 135 W St-1

•	11
12/21/ S BUS 3505	-
12/21/01 Sens Cold 30°F	
0759 FAC onsite	
0815 Spelo with Rich & Erik Going to	
use ship somple - for UE-17-18.	
possibly Cot-1 unless on wike prisent	
in one Picture 1<2) Cs Epscongling	
0930 Done with sampling	
0940 Beck on site sampling containers	
` ')	
preparet.	
io15 Completed sounder continuerization	<u></u>
Puch to burn a picture of delby	
tube sampling from 5 - F. Compal	
manang ful Back onside 1/2/02	
loso off site	
1030	

12 02 Fry Cie 2014 0555 Loc vas. to Spoke with Condy John En at will tomorow, Enk - leich it. This 1736 Enil & Sich still off site, Werk on icent to sime tomorous per Cardy. 1872 Betwee freing N from Judith of CSB With Street

1/3/62 Sunny 6/6 16°F 0357 PAC insk. Het with John Fiore but schidule today. 0930 Splento Pich, co-F being excavate reach dogleg. Site will began 1003 Picture from 1211 St war, Faring 1. W 1100 Picture of ways on sike 165 Dove with it in to an post it in without 1167 Prime it sading to someway Fixing west 1110 Picture of creek but found North John planning on57 weeks (last week of February) to completion of excavation. Plan is to begin at awant position downstream working up strong while also working down stram from degles. CS-F =25%-35% complete, but with colder weather things Slow down, Spoke to Rich about marking eff sampling points is planning to pull samples as material renoval. 1145 At Africa, John said storting F were anyling 1200 off site

2027 5, te wask

2935 Picture of doging at CSF facing N 2937 Paker of US F from day leg to box culvert Sediment being in xel with

growy mix to stobilize mist moderial 0950 Back at frailer spoke to John on all

phase - built by 1015 or is. 1010 Spoke to Erik. He - Kich are working on

GPS for sampling points all day. 1045 John expland that Selfic still has deta · validating results. Dollar dam built with to I much from ble dug sar correct work area at CS.F. Ho williams used!

1110 off sike

18/02 Sunny 50'F

1230 PAC onsite Performing sampling in CS-F this afternoon. After speaking with John and this morning (= 1000) plans were made to do sompling event John sould nothing else- substantial heades Somet mound has eccuped - no problème en incerne

1305 Drove to CS-F to observe excavation. No activity at main staying area. Crews not back from tunch yet.

1345 Piture of cit from 5 herm tuning N Proton of all from SW rump facing E Picture of cell from swimp facing N 1350 Erik : Rich performing GPS on prior sempling

points - ill be scapping in CS-F by 1415or

1359 Arrived CSF, church porking lot 1410 Erik & Rich done with GPS. Picking up vehicle driving to simple points in

1425 Byin song in CSF TSI (TCL) 1928 licture of creek-chancel troing SW Preture of Rich suppling tolling w 1735 Dow with F5

1.8/2 (5-11) 1445 (TCIP) and sterles. Chromed is singly motivated where singly specially + war sity (cky Black Brown). 1932 714 Dre. Productoring Wat TI4 1756 173 Byun scraly event M. teny trucken. Intany them to semple contin al . Dy-L- Some Zotal. Ruch - Cook have stoke Through thouse to? 1500 Sampley, TIJ done, Picture Georg Sw 1520 But at tracker Ruh - Ende pulling somple toom cell 1/3200. 1537 Rich gragan & sangles for shipment. Next rand of sampling soundy therefor Introds at 350. As working in CS-F-T13-1 . To nort punts. 1547 off site 12-6-0

illolo2 Somy So'F 0995 RAC on sek Sandra Bom schools to less on site. 1025 Rich explained that rummed slowing in CS-F du to sloppy noterial from warm-up Meity mus week to stabilite 1030 Tom Bine on site to gick up eguipment 1035 Jambra Bon coller inning lake \$ 1100 1100 Picture of wurs weather is a time work Constructed building to keep graps closes tradel. P-cture of inculated emolite that is not insulated on inside like true toutes 1102 Sandra on site. Sondra his only one set of analytical results from work - supposed to me every a) three during start up? Checken, the fenn = John. Sondra reviews chining it 1130 Dome around call. 1145 At US F. Men degly Photo co solties unter 1203 Swelve which John flor witer imples. 1215 Dove to eno of Ci-F. Piture thing

Alter of the standard of the s

Alloz ilmy 40'F LAST THE ons to Met with John No significant events in lat this dig! Met with Rich sum wear -FB=F7 ponts are red viz 0815 Picture facing NE of xomato - Picture tacy SE constrains Crew current position 0817 Picture forther down strong facing NE. Printer fring class storam tecrit SE. looking at pump station. 125 Miller addant at 157 : He 3. Truck was Trit by noman driving 4 door chary. By Patrice y cell stockpile taking N. Picture of steekp, bin all tarry w. Picture from si ramp loing E Picture from sw ramp toring N. 0640 At wwts. Rich explained winterization 0930 Rich polled 2 samples from CSF. 1020 At send of F. John appearing 522 dearing up area. Probably not pulling simple from this area today 1026 Richae Luing NE of orest

1/21/0- Snng 45F 12 to On site. Marrick is out to lunch Significant events include recent Tomelles to cell to observe work. Picture taking NW & CF all . Stock piled material 1314 Picture from key near S ramp of excavation today. Difficult to drive - wall in work 1325 Picture from Sample Port (SF-TUfeeling N. Plature from TII Paring S. 131 Picture from To facing N. licture from T-9 faing S. 1335 Platness starting from N to S. Parmonte show nork over 1350 Spoke to Erile and Richard about current exempthy activities Comently, removed is howited to area around TT. 8 and TIZ-13, Rich pulled points TGT7 and TI3 last Friday due to purping of up strem areas = parsonly of greeipitation - Hording 1 Souph cla, No poblane argenter? fich was able to walk across chancelle 18 is available for songling, but working ent lather points available. Not las ble

to send only we completed, other automation of least calletron system it to with Zitard on 1/22 or 1/23 to discuss activities. 1430 OFF 51/2

1/22/ca Sunny 40°F 0835 PAC onsite Socke to Enk with maurick. Conding out trucks this morning with stabilized sediments from CS-F. Working in SW portion of cell face this 0905 Observed unloading of sediments incell. Picture of I cell from SIV ramp facing NE. Picture looking N from SW ramp CS-B sump one at north part of segment Drove along CS-3 to observe liver soliment disposition. Integrity of liver | geo membrane is intact. 1015 Observed CS-F selfnent removal activity 1030 Picture of CS-F channel facing 5 down strain. Picture of standing water upstream from dogles. Water has 1100 Drove length of levy to teathest point near peng station. Observed films work 1115 Draw buch along western levy to

1/22/02 (cont.) observe operation from west side. 125 Area when water is being purped 1205 Off sit lunch. 1237 Back on sike Replaced Lind lamp - wher blades on EPA relich. 1300 Reviewed Dear Geek Suport Sampling 343 Rich . Erik partorning GPS one GW sample points. 1410 Observed remand activities at CS-F. State giles continue to be mixed of line stone - boaded

26 1/23/02 Overcest is con sk Entrot sampling get. Called Sandra Brow, Out of affice today bett message. West's were you so gardens parday theiler system to an detection and collection makes. Its of yesterday 1/22 wil has falen 59,028 truel yards. Estimated than volve is likely estimated at 50,000 entire yards compacted. Survey probably done when 0475 Picture of cell from Sw ramp. Fasing NE Picture of cell from SE 1020 Erik bock at trailer. Marerick and Golder to begin sampling three points in Cs-F- 78, 79, = T/2. list The sampling began Piche DEnk 1058 Tig saiding began. Picture of simpling 1103 T-12 sampling begin.
1115 Oberne sampling confairer ization

1/25/02 Sunny 30'F 0930 RAC onsite. Had call to 0815 from Richard that last 2 sample point in CS-F are ready - they world like to pull them. S. ladded for 1000 - 710, TII Erike Lich in LS-B doing GPS work. of + 0945. 1010 Mub to observe sompling at TIO, TIL. Too slick for Gis teday lose Start Tio songling went Picture of Frik sampling TIO 1028 Start Til scapling even Pinture of Kich sompling TII 1034 Doe of sompling events Par Erik, Sandon was on site gesterday " She addressed stock piling of material on bank it creek in Cs. F. Brought up issue of having plastic down uncher stock-piles in site 1200 tocker. Kevin marke to speak with John. No trucks were harling guester day die to much matipul. 1200 of Vs. 15

1/28/02 simmy 65°F 1145 RAC on site With weather opposed in Wat Thirs - it appears as it tackay and tomorrow will be the only work days Won't got to pump station area intil next well 1305 Spoke with John about Someony wats intomation to kovin . Kerin is anare that undiffications did not occur John was going to senous and fil for carbon without booms results come back elevated - nowanick becided to keep system intent. 1415 Picture of all from SE roup D are the stadepile was P. hre of all from SE remp, for, wast of CS F sto depiled 2 to

2/1/02 Partly Clary 30°F 1100 RAC anside. No operation teday. Riturd a Golder office Erok on site , but sick - only mehones worting. because 2 min so and in CS France slow rext week. main stock-piles - jushing natural 135 Picture from 5 motionce on leng of CSF. Very moly . Acces linter. 1230 Parc offsite

3/4/02 Sum 35°F 09,53 PAC onster Houling addinant feday Estimated 20 louts to complete CSTE. Operation will transfer to the ansa example pump station a possibly more south of one point at CS-F (BRC) 493 hocks in francisco 50,285 hocky od As 1) 1/2 61,305 horte yours. 1105 left to lefton Iron to meet kayin Turner As Dood Cask winds down - may need to spend lestimate it. At on i) pa just with do letter report for wow do PULBER Tim? 1120 at 5.4 0 lefter 1125 At Dood Evel Observed touch inloading in all stockpiled untered in su action of all being mond. 1 1140 Observed truck being board in CS-F. 1145 Piche of executor cleaning skelpiled 1150 off site for lunch 1215 Onsite Talked to John about scholale Are my setation the tracked boda shall finish toward & sample, C. Ker scholail for placement in CEB being plans, but as tion date Survey

2/4/a2 (cont.)

to be cofeliated come within part two
works.

1255 abserved and begoing a charing along
buy. Equipment being usual to area

come pump itation
1830 State to lich about sampling tomorrow
the will contact me with time frame
1400 DET s.t

·id 别题情懂

has an apportunity to go ahead on
the sampling for an a near pump
Station. I authorized pyling the
sample nothernt over sight. Rich
will provide pictures.

1215 AAC on site. John explained
That operations are winding
down - just moving rip rap in
CS-F 2 demobilizing. I will be at
site towards upcoming events.

to discuss briefly upcoming events.

2/2/02 Smy 350F

MOD PAC consider. 6 ml fabric

being places on cell. Movember

sening entire length of seam. 5 locals

have about half I cell considered toclory—

remainder tomorrow. Picture of cell from SE ramp facing NW. Picture

of cell from SE ramp facing N

Plature I cell from W bern facing

E. Picture I cell from NW corner

I sump area tiver facing SE.

;

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100 1911

APPENDIX B

PHOTOGRAPHIC LOG

(55 Pages)

(Original photographs and negatives are on file at the Tetra Tech EM Inc. START office)



OFFICIAL PHOTOGRAPH NO. 1 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Rough grading of the TSCA cell site.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

West

TDD Number:

S05-0104-010

Date: April 11, 2001

Photographer:

Art Currier, Tetra Tech EM Inc. (TtEMI)

Witness:



OFFICIAL PHOTOGRAPH NO. 2 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

View of Site M access road with end of Walnut Street and residences in the

background.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

East

TDD Number:

S05-0104-010

Date:

April 11, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 3 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Segment B adjacent to the TSCA cell site.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

North

TDD Number:

S05-0104-010

Date:

April 11, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 4 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

The creek dewatering system just downstream from Judith Lane.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

Northeast

TDD Number:

S05-0104-010

Date:

April 11, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 5 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Sediment trap at Judith Lane.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

Northeast

TDD Number:

S05-0104-010

Date:

April 11, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 6 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Flow dissipater at the end of the creek dewatering system.

Location:

<u>Dead Creek Sediment Removal Site</u> <u>Sauget, St. Clair County, Illinois</u>

Orientation:

South

TDD Number:

S05-0104-010

Date:

May 8, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 7 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Dewatering Site M.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

East

TDD Number:

S05-0104-010

Date:

June 13, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 8 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Removing sediment from Site M with a longstick backhoe.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

Northeast

TDD Number:

S05-0104-010

Date:

July 13, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 9 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Site M after the removal was completed and clean fill was placed in the

excavation.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

East

TDD Number:

S05-0104-010

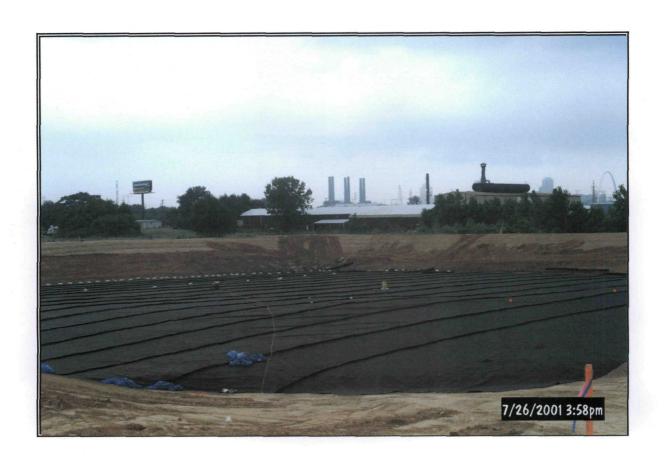
Date:

July 13, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 10 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

The secondary liner geotextile layer.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

Northwest

TDD Number:

S05-0104-010

Date:

July 26, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 11 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Cleaning the culvert passing under Highway 157.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

Southwest

TDD Number:

S05-0104-010

Date: July 30, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 12 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Deployment of GCL layer in the secondary liner.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

East

TDD Number:

S05-0104-010

Date:

August 1, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 13 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Overlap between GCL rolls in the secondary liner.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

East

TDD Number:

S05-0104-010

Date:

August 1, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 14 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Deployment of geomembrane layer over the GCL in the secondary liner.

Location:

<u>Dead Creek Sediment Removal Site</u> <u>Sauget, St. Clair County, Illinois</u>

Orientation:

Northwest

TDD Number:

S05-0104-010

Date:

August 1, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 15 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Welding the seam between two geomembrane rolls in the secondary liner.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

South

TDD Number:

S05-0104-010

Date:

August 1, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 16 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Air testing a geomembrane seam in the secondary liner.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

Southwest

TDD Number:

S05-0104-010

Date:

August 2, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 17 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Geomembrane layer of the secondary liner covering most of the cell.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

Southwest

TDD Number:

S05-0104-010

Date:

August 6, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 18 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Portion of Segment D with contaminated sediment removed.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

North

TDD Number:

S05-0104-010

Date:

August 8, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 19 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Sediment being removed from Segment E near the intersection of Highways

3 and 157.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

West

TDD Number:

S05-0104-010

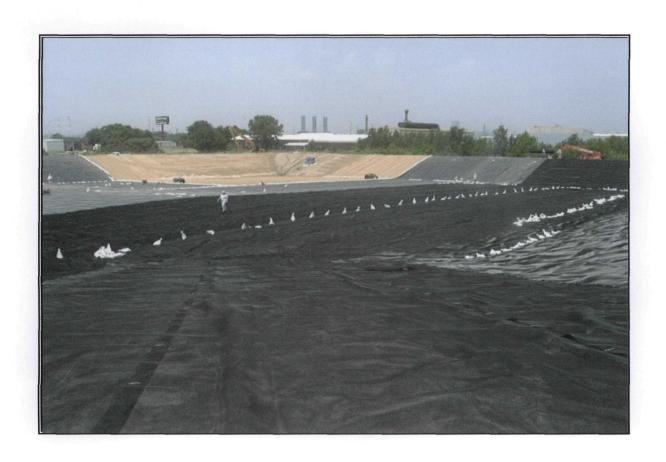
Date:

August 8, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 20 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Partial coverage of the Geonet layer in the secondary liner.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

South

TDD Number:

S05-0104-010

Date:

August 9, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 21 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject: Installation of the second layer of geotextile in the secondary liner.

<u>Location:</u> <u>Dead Creek Sediment Removal Site</u> Sauget, St. Clair County, Illinois

Orientation: Northwest

<u>TDD Number:</u> <u>S05-0104-010</u> <u>Date:</u> <u>April 10, 2001</u>

<u>Photographer:</u> <u>Art Currier, TtEMI</u> <u>Witness:</u> <u>None</u>



OFFICIAL PHOTOGRAPH NO. 22 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Construction of the bermed liner for the wastewater treatment system.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

East

TDD Number:

S05-0104-010

Date:

August 17, 2001

Photographer:

Joe Parish, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 23 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Placing fill material over the secondary liner.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

Northwest

TDD Number:

S05-0104-010

Date:

August 20, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 24 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Placing holding tanks in the wastewater treatment berm.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

Northeast

TDD Number:

S05-0104-010

Date:

August 21, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 25 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Sump riser pipe in the northwest corner of the cell.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

Northeast

TDD Number:

S05-0104-010

Date:

August 21, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 26 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Installation of a 25-foot deep groundwater monitoring well near the northwest

corner of the cell.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

Northwest

TDD Number:

S05-0104-010

Date:

August 23, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 27 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Covering the cell with geomembrane.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

Northwest

TDD Number:

S05-0104-010

Date:

August 23, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 28 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Cell construction showing various layers of the primary liner.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

Northeast

TDD Number:

S05-0104-010

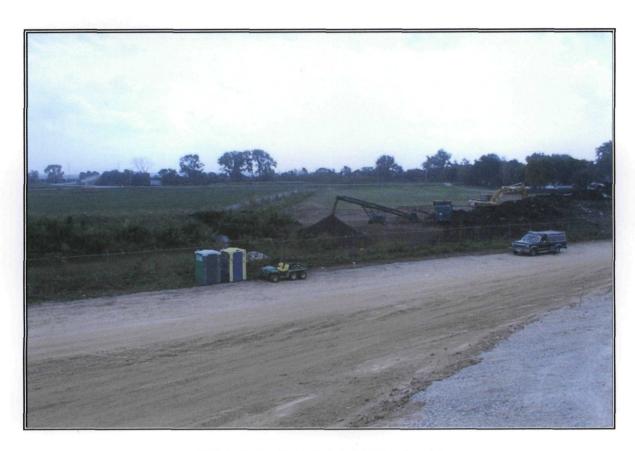
Date:

August 29, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 29 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Screening sediment that is stockpiled in Segment B.

Location:

<u>Dead Creek Sediment Removal Site</u> <u>Sauget, St. Clair County, Illinois</u>

Orientation:

Southeast

TDD Number:

S05-0104-010

Date:

September 6, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 30 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Placing sand on top of the primary liner and securing the anchor trench on the

west slope of the cell.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

North

TDD Number:

S05-0104-010

Date:

September 7, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 31 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Collection sump located in the northwest corner of the cell.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

North

TDD Number:

S05-0104-010

Date: September 10, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 32 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Removal activities in Segment E between Edgar Street and Jerome Lane.

Location:

<u>Dead Creek Sediment Removal Site</u> Sauget, St. Clair County, Illinois

Orientation:

North

TDD Number:

S05-0104-010

Date:

September 13, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 33 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Completed sand layer on top of the liner.

Location:

<u>Dead Creek Sediment Removal Site</u> <u>Sauget, St. Clair County, Illinois</u>

Orientation:

Northeast

TDD Number:

S05-0104-010

Date:

September 19, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 34 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Access ramp on the southeast corner of the cell.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

Southwest

TDD Number:

S05-0104-010

Date:

September 24, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 35 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

First load of screened sediment is dumped into the cell from the southeast

ramp.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

Northeast

TDD Number:

S05-0104-010

Date:

September 26, 2001

Photographer:

Art Currier, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 36 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Placing sediment along the toe of the east slope of the cell.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

South

TDD Number:

S05-0104-010

Date:

September 27, 2001

Photographer:

Tom Binz, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 37 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Completed removal in Segment E north of Kinder Street.

Location:

<u>Dead Creek Sediment Removal Site</u>

Sauget, St. Clair County, Illinois

Orientation:

North

TDD Number:

S05-0104-010

Date:

October 8, 2001

Photographer:

Tom Binz, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 38 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Excavation of Segment B adjacent to Queeny Avenue.

Location:

<u>Dead Creek Sediment Removal Site</u> <u>Sauget, St. Clair County, Illinois</u>

Orientation:

West

TDD Number:

S05-0104-010

Date:

October 22, 2001

Photographer:

Tom Binz, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 39 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Removal of stockpiled material from Segment B.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

Northwest

TDD Number:

S05-0104-010

Date:

October 25, 2001

Photographer:

Tom Binz, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 40 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject: Technician removing material from around

Technician removing material from around the "overflow" pipe located in the

west slope of Segment B just south of Queeny Avenue.

<u>Location:</u> <u>Dead Creek Sediment Removal Site</u>

Sauget, St. Clair County, Illinois

Orientation: West

TDD Number: S05-0104-010 **Date:** October 27, 2001

Photographer: Tom Binz, TtEMI Witness: None



OFFICIAL PHOTOGRAPH NO. 41 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Material partially plugging the end of the "overflow" pipe.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

West

TDD Number:

S05-0104-010

Date: November 3, 2001

Photographer:

Tom Binz, TtEMI

Witness:

<u>None</u>



OFFICIAL PHOTOGRAPH NO. 42 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Collecting a sample of the discharge from the "overflow" pipe.

Location:

<u>Dead Creek Sediment Removal Site</u> <u>Sauget, St. Clair County, Illinois</u>

Orientation:

West

TDD Number:

S05-0104-010

Date:

November 3, 2001

Photographer:

Tom Binz, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 43 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Installation of concrete and bentonite plug in the mouth of the "overflow"

pipe.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

Southwest

TDD Number:

S05-0104-010

Date:

November 7, 2001

Photographer:

Tom Binz, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 44 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Sediment removal from Segment C just south of Judith Lane.

Location:

<u>Dead Creek Sediment Removal Site</u> <u>Sauget, St. Clair County, Illinois</u>

Orientation:

South

TDD Number:

S05-0104-010

Date:

November 8, 2001

Photographer:

Tom Binz, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 45 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Completed plug in the mouth of the "overflow" pipe.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

West

TDD Number:

S05-0104-010

Date:

November 9, 2001

Photographer:

Tom Binz, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 46 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Southern portion of Segment B with geotextile blanket installed.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

South

TDD Number:

S05-0104-010

Date:

November 9, 2001

Photographer:

Tom Binz, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 47 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Dumping fly ash in the cell to reduce overall moisture content of material.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

East

TDD Number:

S05-0104-010

Date:

November 12, 2001

Photographer:

Ron Carroll, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 48 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Confirmation sampling in the creek bed.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

West

TDD Number:

S05-0104-010

Date:

December 13, 2001

Photographer:

Ron Carroll, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 49 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Nearly full cell.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

Northeast

TDD Number:

S05-0104-010

Date:

January 8, 2002

Photographer:

Ron Carroll, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 50 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Wastewater treatment system winterization system.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

Northeast

TDD Number:

S05-0104-010

Date:

January 10, 2002

Photographer:

Tom Binz, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 51 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Discolored water in Segment F upstream from the dogleg.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

South

TDD Number:

S05-0104-010

Date: January 22, 2002

Photographer:

Ron Carroll, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 52 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Placing cobble in the excavation in Segment F near the pump station.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

West

TDD Number:

S05-0104-010

Date:

February 6, 2002

Photographer:

Ron Carroll, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 53 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Northwest corner of cell showing the top of the sump and the discharge hose.

Location:

<u>Dead Creek Sediment Removal Site</u> <u>Sauget, St. Clair County, Illinois</u>

Orientation:

East

TDD Number:

S05-0104-010

Date:

February 13, 2002

Photographer:

Ron Carroll, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 54 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Placing the geomembrane cover over the sediment.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

East

TDD Number:

S05-0104-010

Date:

February 28, 2002

Photographer:

Ron Carroll, TtEMI

Witness:



OFFICIAL PHOTOGRAPH NO. 55 U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject:

Placing poly over the geomembrane layer in the temporary cover.

Location:

Dead Creek Sediment Removal Site

Sauget, St. Clair County, Illinois

Orientation:

Northwest

TDD Number:

S05-0104-010

Date:

March 1, 2002

Photographer:

Ron Carroll, TtEMI

Witness:

APPENDIX C

TABLE OF WITNESSES

(One Page)

TABLE OF WITNESSES

Dead Creek Sediment Removal Sauget, St. Clair County, Illinois

Mr. Kevin Turner
On-Scene Coordinator
U.S. Environmental Protection Agency
c/o Crab Orchard National Wildlife Refuge
8588 Route 148
Marion, Illinois 62959
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Mr. Ronald Carroll, Project Manager
Mr. Thomas Binz
Mr. Arthur Currier
Superfund Technical Assessment and Response Team
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11116 South Towne Square
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Mr. John A. Fiore, Construction Manager Maverick Construction Management Services, Inc. 15 Cedar Street Auburn, Massachusetts 01501 (508) 721-2227